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MAGNETIC TAPE
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ELECTRON TUBE DIVISION

415 South 5th Street

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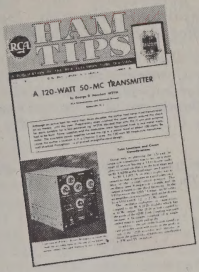
RCA MAGAZINES

• **RCA RADIO & TELEVISION SERVICE NEWS**—This publication is designed to keep the dealer and service technician informed on the latest television and radio sales and servicing techniques. Read it regularly for interesting articles as well as for helpful hints on new merchandising procedures, new products, and new promotions. Published quarterly. Available free of charge from your RCA Electron Tube Distributor.

• **RCA TUBE TIPS**—This popular newsletter keeps the broadcast engineer up to date on the latest developments in broadcast tubes. It is a timely publication containing valuable application information, technical tips, and new product data. Published quarterly. Sent free of charge to broadcast station personnel by the RCA Electron Tube Division.

RCA MAGAZINES



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• **RCA ELECTRONICS PIONEER**—A vital magazine exclusively prepared for readership by design engineers, purchasing agents, and executives of electronic equipment manufacturing firms and research and development companies. Keeps them alerted to RCA's new product achievements. It accentuates developments and applications of RCA industrial tubes, receiving tubes, picture tubes, magnetic reed switches, thermoelectric modules, superconductors, batteries, and electronic instruments. Published quarterly. Available without charge from your RCA Electron Tube Distributor.

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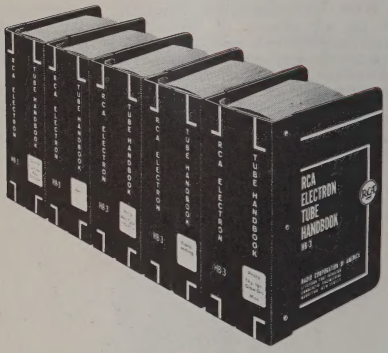
Ask your RCA Distributor for these publications, or write directly to Commercial Engineering, Radio Corporation of America, Harrison, New Jersey. When ordering from Commercial Engineering, make remittance payable in U.S. dollars to Radio Corporation of America.

NOTE: All prices are optional list prices and apply in the U.S.A. They are subject to change without notice.

ELECTRON TUBES



• **RCA ELECTRON TUBE HANDBOOK**—HB-3 (7¾" x 5⅝"). Five deluxe 2¼-inch-capacity black binders imprinted in gold. The "bible" of the industry—contains over 5000 pages of loose-leaf data and curves on RCA receiving tubes, transmitting tubes, cathode-ray tubes, picture tubes, photocells, phototubes, camera tubes, ignitrons, vacuum and gas rectifiers, magnetrons, traveling-wave tubes, premium tubes, pencil tubes, and other miscellaneous types for special applications. Available on subscription basis. Price $20.00 including service for first year. Also available with RCA SEMICONDUCTOR PRODUCTS HANDBOOK HB-10 at special combination price of $25.00. Write to Commercial Engineering, RCA, Harrison, N. J., for Descriptive Flyer and Order Form.

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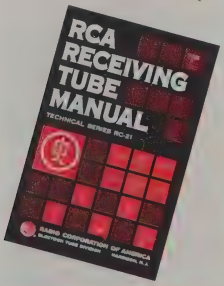
• **RCA RECEIVING TUBE MANUAL**—RC-21 (8¼" x 5⅜") —480 pages. Revised, expanded, and brought up to date. Contains technical data on 903 receiving tubes and 106 picture tubes for black-and-white and color television. Features tube theory written for the layman, application data for radio and television circuits, Resistance-Coupled Amplifier Section, new receiving-tube and picture-tube charts, and several circuits for high-fidelity audio amplifiers. Features lie-flat binding. Price $1.00.



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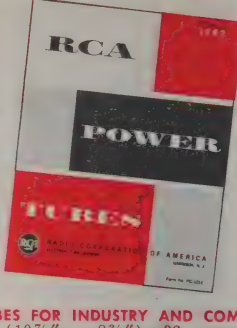

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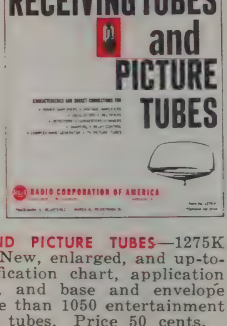

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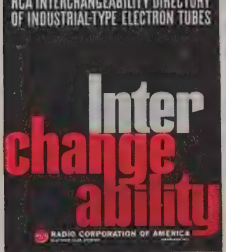

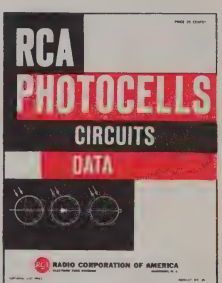

• **RCA PHOTOCELLS**—1CE-261 (10⅞" x 8⅜")—20 pages. Contains a selection of photocell-circuit diagrams; technical data and characteristic curves of RCA photoconductive, photojunction, and photovoltaic cells; interchangeability information; and supplementary information on tungsten and fluorescent light sources. Booklet is designed to introduce the engineer, the hobbyist, and the experimenter to application possibilities of RCA photocells. Price 25 cents.

• **RCA PENCIL TUBES**—1CE-219 (10⅞" x 8⅜")—28 pages. Contains operating theory for pencil tubes, electrical and mechanical circuit-design considerations, environmental considerations, application considerations, and data for commercial types. Price 50 cents.

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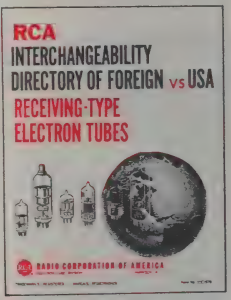

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• **INSTRUCTION BOOKLETS**—Illustrated instruction booklets, containing specifications, operating and maintenance data, application information, schematic diagrams, and replacement parts lists, are available for all RCA test instruments. See page 278. Booklets for the popular instruments listed are available at the prices indicated. Prices for booklets on other instruments are available on request.

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• **RCA SEMICONDUCTOR PRODUCTS HANDBOOK** — HB-10. Two binders, each 7⅜" L x 5⅝" W x 2⅞" D, having gold-imprinted red covers. Contains over 1000 pages of loose-leaf data and curves on RCA semiconductor devices such as silicon transistors, germanium transistors, silicon rectifiers, and semiconductor diodes. Available on subscription basis. Price $10.00 including service for first year. Also available with RCA ELECTRON TUBE HANDBOOK HB-3 at special combination price of $25.00. Write to Commercial Engineering, RCA, Harrison, N. J., for Descriptive Flyer and Order Form,

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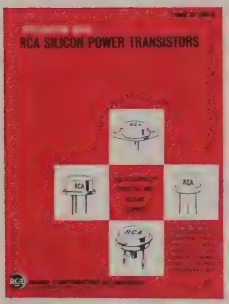
• **TECHNICAL BULLETINS** — Authorized information on RCA transistors and semiconductor diodes. Be sure to mention type number for desired bulletin. Single copy on any type free on request.



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RECEIVING TUBE CHART SECTION

For More Information on a Specific Tube Type, Write to

RCA COMMERCIAL ENGINEERING

HARRISON, N. J.

(For Footnotes, Key to Tube Dimensions, and Base Diagrams, See Pages 57 through 74.)

RCA RECEIVING TUBE CHART

Miniature, Metal, GT, and other Receiving Types

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
00-A	Detector Triode	K8	4D	5.0F	0.25	Grid-Leak Detector
01-A	Detector★ Amplifier	K8	4D	5.0F	0.25	Class A Amplifier
0Y4	Half-Wave Gas Rectifier	F2	4BU	—	—	Rectifier
0Z4	Full-Wave Gas Rectifier	E2 F2	4R	—	—	Rectifier
0Z4-A	Full-Wave Gas Rectifier	E2	4R	—	—	Rectifier
0Z4-G	Full-Wave Gas Rectifier	E2 F2	4R	—	—	Rectifier
1A3	Diode	A2	5AP	1.4	0.15	Rectifier
1A4-P	Remote-Cutoff Pentode	K5	4M	2.0F	0.06	Class A Amplifier
1A5-GT	Power Pentode	F8	8X	1.4F	0.05	Class A Amplifier
1A6	Pentagrid Converter ◘	K5	6L	2.0F	0.06	Converter
1A7-GT	Pentagrid Converter ◘	F7	7ZK	1.4F	0.05	Converter
1AC5	Power Pentode	K1	8CP	1.25F	0.04	Class A Amplifier
1AD5	Sharp-Cutoff Pentode	K1	8CP	1.25F	0.04	Class A Amplifier
1AX2	Half-Wave Rectifier	B8	9Y	1.4F	0.65	Pulsed Rectifier in TV Receivers
1B3-GT	Half-Wave Rectifier	F20	3C	1.25F	0.2	Pulsed Rectifier in TV Receivers
1B4-P	Sharp-Cutoff Pentode	K5	4M	2.0F	0.06	Class A Amplifier
1B5/25S	Twin Diode—Medium-Mu Triode	K4	6M	2.0F	0.06	Triode Unit as Class A Amplifier
1B7-GT	Pentagrid Converter ◘	F7	7ZK	1.4F	0.10	Converter
1C5-GT	Power Pentode	F8	6X	1.4F	0.10	Class A Amplifier
1C6	Pentagrid Converter ◘	K5	6L	2.0F	0.12	Converter
1C7-G	Pentagrid Converter ◘	F24	7Z	2.0F	0.12	Converter
1D5-GP	Remote-Cutoff Pentode	F24	5Y	2.0F	0.06	Class A Amplifier
1D5-GT	Remote-Cutoff Tetrode	F24	5R	2.0F	0.06	Class A Amplifier
1D7-G	Pentagrid Converter ◘	F24	7Z	2.0F	0.06	Converter

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
1D8-GT	Diode-Triode-Power Pentode	F6	8AJ	1.4F	0.10	Pentode Unit as Class A Amplifier Triode Unit as Class A Amplifier
1DN5	Diode—Semiremote-Cutoff Pentode	A2	6BW	1.4F	0.5	Pentode Unit as Class A Amplifier
1E5-GP	Sharp-Cutoff Pentode	F24	5Y	2.0F	0.06	Class A Amplifier
1E7-GT	Twin Power Pentode	F6	8C	2.0F	0.24	Class A Amplifier
1E8	Pentagrid Converter▲	K1	8CN	1.25F	0.04	Converter
1F4	Power Pentode	K8	5K	2.0F	0.12	Class A Amplifier
1F5-G	Power Amplifier Pentode	F28	8X	2.0F	0.12	Class A Amplifier
1F6	Twin Diode—Sharp-Cutoff Pentode	K5	8W	2.0F	0.06	Pentode Unit as Class A Amplifier
1F7-G	Twin Diode—Sharp-Cutoff Pentode	F24	7AF	2.0F	0.06	Pentode Unit as Class A Amplifier
1G3-GT/1B3-GT	Half-Wave Rectifier	F12	3C	1.25F	0.2	Pulsed Rectifier in TV Receivers HV Rectifier in RF Power Supplies
1G4-GT	Medium-Mu Triode	F6	5S	1.4F	0.05	Class A Amplifier
1G5-G	Power Pentode	F28	6X	2.0F	0.12	Class A Amplifier
1G6-GT	High-Mu Twin Power Triode	F8	7AB	1.4F	0.10	Class B Amplifier
1H4-G	Medium-Mu Triode	F21	5S	2.0F	0.06	Class A Amplifier Class B Amplifier
1H5-GT	Diode—High-Mu Triode	F7	6ZK	1.4F	0.05	Triode Unit as Class A Amplifier
1H6-G	Twin Diode—Medium-Mu Triode	F21	7AA	2.0F	0.06	Triode Unit as Class A Amplifier
1J3	Half-Wave Rectifier	F20	3C	1.25F	0.2	Pulsed Rectifier in TV Receivers
1J5-G	Power Pentode	F28	6X	2.0F	0.12	Class A Amplifier
1J6-G 1J6-GT	Twin-Triode Amplifiers	F21 F12	7AB	2.0F	0.24	Class B Amplifier
1K3	Half-Wave Rectifier	F12	3C	1.25F	0.2	Pulsed Rectifier in TV Receivers
1L6	Pentagrid Converter ⊕	A2	7DC	1.4F	0.05	Converter
1LA4	Power Pentode	J2	5AD	1.4F	0.05	Amplifier
1LA6	Pentagrid Converter ⊕	J2	7AK	1.4F	0.05	Converter
1LB4	Power Pentode	J2	5AD	1.4F	0.05	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
1LC5	Sharp-Cutoff Pentode	J2	7AO	1.4F	0.05	Class A Amplifier
1LC6	Pentagrid Converter ⊕	J2	7AK	1.4F	0.05	Converter
1LD5	Diode—Sharp-Cutoff Pentode	J2	6AX	1.4F	0.05	Pentode Unit as Class A Amplifier
1LE3	Medium-Mu Triode	J2	4AA	1.4F	0.05	Class A Amplifier
1LG5	Remote-Cutoff Pentode	J2	7AO	1.4F	0.05	Class A Amplifier
1LH4	Diode—High-Mu Triode	J2	5AG	1.4F	0.05	Triode Unit as Class A Amplifier
1LN5	Sharp-Cutoff Pentode	J2	7AO	1.4F	0.05	Class A Amplifier
1N2 **1N2-A**	Half-Wave Rectifier	F17 F11	3C	1.25F	0.2	Pulsed Rectifier in TV Receivers
1N5-GT	Sharp-Cutoff Pentode	F7	5Y⅛	1.4F	0.05	Class A Amplifier
1N6-G	Diode—Power Pentode	F18	7AM	1.4F	0.05	Pentode Unit as Class A Amplifier
1P5-GT	Remote-Cutoff Pentode	F7	5Y⅛	1.4F	0.05	Class A Amplifier
1Q5-GT	Beam Power Tube	F8	6AF	1.4F	0.1	Class A Amplifier
1R5	Pentagrid Converter▲	A2	7AT	1.4F	0.05	Converter
1S4	Power Pentode	A2	7AV	1.4F	0.1	Class A Amplifier
1S5	Diode—Sharp-Cutoff Pentode	A2	6AU	1.4F	0.05	Pentode Unit as AF Amplifier
1T4	Remote-Cutoff Pentode	A2	6AR	1.4F	0.05	Class A Amplifier
1T5-GT	Beam Power Tube	F6	6X	1.4F	0.05	Class A Amplifier
1T6	Diode—Sharp-Cutoff Pentode	K1	8DA	1.25F	0.04	Pentode Unit as Class A Amplifier
1U4	Sharp-Cutoff Pentode	A2	6AR	1.4F	0.05	Class A Amplifier
1U5	Diode—Sharp-Cutoff Pentode	A2	6BW	1.4F	0.05	Pentode Unit as Class A Amplifier
1-v	Half-Wave Rectifier	K4	4G	6.3	0.3	With Capacitive-Input Filter
1V2	Half-Wave Rectifier	B2	9U	0.625F	0.3	Pulsed Rectifier
1X2-A	Half-Wave Rectifier	B13	9Y	1.25F	0.2	Pulsed Rectifier in TV Receivers
1X2-B	Half-Wave Rectifier	B8	9Y	1.25F	0.2	Pulsed Rectifier in TV Receivers
2A3	Power Triode	K11	4D	2.5F	2.5	Class A Amplifier Push-Pull Class AB_1 Amplifier
2A4-G	Glow-Discharge Triode	F21	5S	2.5F	2.5	Relay Service

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
2A5	Power Pentode	K8	8B	2.5	1.75	Amplifier
2A6	Twin Diode—High-Mu Triode	K5	6G	2.5	0.8	Triode Unit as Amplifier
2A7	Pentagrid Converter ◘	K5	7C	2.5	0.8	Converter
2AF4-A	Medium-Mu Triode	A2	7DK	2.35⊕	0.6	Class A Amplifier
2AF4-B		A1				Oscillator at 1000 Mc.
2B7	Twin Diode—Remote-Cutoff Pentode	K5	7D	2.5	0.8	Pentode Unit as Amplifier
2BN4	Medium-Mu Triode	A2	7EG	2.3⊕	0.6	Class A Amplifier
2BN4-A	Medium-Mu Triode	A2	7EG	2.35⊕	0.6	Class A Amplifier
2CW4	Nuvistor High-Mu Triode	D1	12AQ	2.1	0.45	Class A Amplifier
2CY5	Sharp-Cutoff Tetrode	A2	7EW	2.4⊕	0.6	Class A Amplifier
2DS4	Nuvistor High-Mu Triode	D1	12AQ	2.1⊕	0.45	Class A Amplifier
2E5	Electron-Ray Tube	K4	6R	2.5	0.8	Visual Indicator
2EN5	Twin Diode	A2	7FL	2.1⊕	0.45	Horizontal Phase Detector
2ER5	High-Mu Triode	A2	7FP	2.3	0.6	Class A Amplifier
2FH5	High-Mu Triode	A2	7FP	2.35⊕	0.6	Class A Amplifier
2GK5	High-Mu Triode	A2	7FP	2.3⊕	0.6	Class A Amplifier
3A2	Half-Wave Rectifier	B5	9DT	3.15	0.22	Pulsed Rectifier in TV Receivers
3A3	Half-Wave Rectifier	F20	8EZ	3.15	0.22	Pulsed Rectifier in TV Receivers
3A8-GT	Diode-Triode—Pentode	F14	8AS	1.4F 2.8F	0.1 0.05	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
3AF4-A	Medium-Mu Triode	A1	7DK	3.15⊕	0.45	Class A Amplifier Oscillator at 1000 Mc.
3AL5	Twin Diode	A1	6BT	3.15⊕	0.6	Detector Rectifier
3AU6	Sharp-Cutoff Pentode	A2	7BK	3.15⊕	0.6	Class A Amplifier
3AV6	Twin Diode—High-Mu Triode	A2	7BT	3.15⊕	0.6	Triode Unit as Class A Amplifier
3B2	Half-Wave Rectifier	F38	8GH	3.15	0.22	Pulsed Rectifier in TV Service
3BA6	Remote-Cutoff Pentode	A2	7BK	3.15⊕	0.6	Class A Amplifier
3BC5	Sharp-Cutoff Pentode	A2	7BD	3.15⊕	0.6	Class A Amplifier
3BE6	Pentagrid Converter ▲	A2	7CH	3.15⊕	0.6	Converter
3BN4	Medium-Mu Triode	A2	7EG	3.0⊕	0.45	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Diag.	B. D.	Volts	Amps.	
3BN4-A	Medium-Mu Triode	A2	7EQ	3.0⊕	0.45	Class A Amplifie
3BN6	Beam Tube	A3	7DF	3.15⊕	0.6	Limiter and Discriminator
3BU8	Sharp-Cutoff Twin Pentode	B4	9FG	3.15⊕	0.6	Class A Amplifie With Both Sectio Operating
3BY6	Pentagrid Amplifier	A2	7CH	3.15⊕	0.6	Sync Separator and Sync Clippe
3BZ6	Semiremote-Cutoff Pentode	A2	7CM	3.15⊕	0.6	Class A Amplifie
3C2	Half-Wave Rectifier	F22	8FV	1.58F 3.15F	0.42 0.21	Pulsed Rectifier TV Receivers
3CB6	Sharp-Cutoff Pentode	A2	7CM	3.15⊕	0.6	Class A Amplifie
3CE5	Sharp-Cutoff Pentode	A2	7BD	3.15	0.6	Class A Amplifie
3CF6	Sharp-Cutoff Pentode	A2	7CM	3.15⊕	0.6	Class A Amplifie
3CS6	Pentagrid Amplifier	A2	7CH	3.15⊕	0.6	Class A Amplifie
3CY5	Sharp-Cutoff Tetrode	A2	7EW	2.9⊕	0.45	Class A Amplifie
3DG4	Full-Wave Rectifier	F25	5DE	3.3F	3.8	With Capacitive Input Filter
3DK6	Sharp-Cutoff Pentode	A2	7CM	3.15⊕	0.6	Class A Amplifie
3DT6	Sharp-Cutoff Pentode	A2	7EN	3.15⊕	0.6	Class A Amplifie
3DT6-A	Sharp-Cutoff Pentode	A2	7EN	3.15⊕	0.6	Class A Amplifie
3EA5	Sharp-Cutoff Tetrode	A2	7EW	2.9⊕	0.45	Class A Amplifie
3ER5	High-Mu Triode	A2	7FP	2.8	0.45	Class A Amplifie
3FH5	Medium-Mu Triode	A2	7FP	3.0	0.45	Class A Amplifie
3GK5	High-Mu Triode	A2	7FP	2.8⊕	0.45	Class A Amplifie
3GS8/ 3BU8	Sharp-Cutoff Twin Pentode	B4	9LW	3.15⊕	0.6	Class A Amplifie (With both sections operating)
3LF4	Beam Power Tube	J2	6BA	1.4F 2.8F	0.1 0.05	Class A Amplifie
3Q4	Power Pentode	A2	7BA	1.4F 2.8F	0.1 0.05	Class A Amplifie
3Q5-GT	Beam Power Tube	F8	7AP	1.4F 2.8F	0.1 0.05	Class A Amplifie
3S4	Power Pentode	A2	7BA	1.4F 2.8F	0.1 0.05	Class A Amplifie
3V4	Power Pentode	A2	6BX	1.4F 2.8F	0.1 0.05	Class A Amplifie
4AU6	Sharp-Cutoff Pentode	A2	7BK	4.2⊕	0.45	Class A Amplifie
4AV6	Twin-Diode—High-Mu Triode	A2	7BT	4.2⊕	0.45	Triode Unit as Class A Amplifie

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
4BC5	Sharp-Cutoff Pentode	A2	7BD	4.2⊕	0.45	Class A Amplifier
4BC8	Medium-Mu Twin-Triode	B2	9AJ	4.2⊕	0.6	Each Unit as Class A Amplifier
4BL8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9DC	4.6	0.6	Class A Amplifier
4BN6	Beam Tube	A3	7DF	4.2⊕	0.45	Limiter and Discriminator
4BQ7-A	Medium-Mu Twin-Triode	B2	9AJ	4.2⊕	0.6	Each Unit as Class A Amplifier
4BS8	Medium-Mu Twin Triode	B2	9AJ	4.5⊕	0.6	Each Unit as Class A Amplifier
4BU8	Sharp-Cutoff Twin Pentode	B4	9FG	4.2⊕	0.45	Class A Amplifier (With both sections operating)
4BZ6	Semiremote-Cutoff Pentode	A2	7CM	4.2⊕	0.45	Class A Amplifier
4BZ7	Medium-Mu Twin-Triode	B2	9AJ	4.2⊕	0.6	Each Unit as Class A Amplifier
4CB6	Sharp-Cutoff Pentode	A2	7CM	4.2⊕	0.45	Class A Amplifier
4CS6	Pentagrid Amplifier	A2	7CH	4.2⊕	0.45	Sync Separator and Sync Clipper Class A Amplifier
4CY5	Sharp-Cutoff Tetrode	A2	7EW	4.5⊕	0.3	Class A Amplifier
4DE6	Sharp-Cutoff Pentode	A2	7CM	4.2⊕	0.45	Class A Amplifier
4DT6	Sharp-Cutoff Pentode	A2	7EN	4.2⊕	0.45	Class A Amplifier
4DT6-A	Sharp-Cutoff Pentode	A2	7EN	4.2⊕	0.45	Class A Amplifier
4EH7	Semiremote-Cutoff Pentode	B7	9AQ	4.4	0.45	Class A Amplifier
4EJ7	Sharp-Cutoff Pentode	B7	9AQ	4.4	0.45	Class A Amplifier
4ES8	Medium-Mu Twin Triode	B2	9AJ	4.0⊕	0.6	Each Unit as Class A Amplifier
4EW6	Sharp-Cutoff Pentode	A2	7CM	4.2⊕	0.6	Class A Amplifier
4GS8/ 4BU8	Sharp-Cutoff Twin Pentode	B4	9LW	4.2⊕	0.45	Class A Amplifier (With both sections operating)
5AM8	Diode—Sharp-Cutoff Pentode	B2	9CY	4.7⊕	0.6	Diode Unit Pentode Unit as Class A Amplifier
5AN8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9DA	4.7⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5AQ5	Beam Power Tube	A3	7BZ	4.7⊕	0.6	Single Tube Class A Amplifier Push-Pull Class AB_1 Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
5AS4 **5AS4-A**	Full-Wave Rectifiers	F36 F22	5T‡	5.0F	3.0	With Capacitive Input Filter With Inductive Input Filter
5AS8	Diode—Sharp-Cutoff Pentode	B2	9DS	4.7⊕	0.6	Diode Unit Pentode Unit as Class A Amplifie
5AT8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9DW	4.7⊕	0.6	Triode Unit as Class A Amplifi Pentode Unit a Class A Amplifi
5AU4	Full-Wave Rectifier	F30	5T	5.0F	3.75	With Capacitive Input Filter With Inductive Input Filter
5AV8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9DZ	4.7⊕	0.6	Triode Unit as Class A Amplifie Pentode Unit as Class A Amplifie
5AW4	Full-Wave Rectifier	F37	5T	5.0F	3.7	Rectifier
5AZ4	Full-Wave Rectifier	J3	5T	5.0F	2.0	
5B8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9EC	4.7⊕	0.6	Triode Unit as Class A Amplifie Pentode Unit as Class A Amplifie
5BC3	Novar Full-Wave Rectifier	C5	9NT	5.0F	3.0	With Capacitive Input Filter With Inductive Input Filter
5BE8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9EG	4.7⊕	0.6	Triode Unit as Class A Amplifie Pentode Unit a Class A Amplifie
5BK7-A	Medium-Mu Twin Triode	B2	9AJ	4.7⊕	0.6	Each Unit as Class A Amplifie
5BQ7-A	Medium-Mu Twin Triode	B2	9AJ	5.6⊕	0.45	Each Unit as Class A Amplifie
5BR8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9FA	4.7⊕	0.6	Triode Unit as Class A Amplifie Pentode Unit a Class A Amplifie
5BT8	Twin-Diode—Sharp-Cutoff Pentode	B2	9FE	4.7⊕	0.6	Class A Amplifie
5BW8	Twin Diode—Sharp-Cutoff Pentode	B2	9HK	4.7⊕	0.6	Pentode Unit as Class A Amplifie
5CG8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9GF	4.7⊕	0.6	Each Unit as Class A Amplifie
5CL8 **5CL8-A**	Medium-Mu Triode—Sharp-Cutoff Tetrode	B2	9FX	4.7⊕	0.6	Triode Unit as Class A Amplifie Tetrode Unit a Class A Amplifie

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6CM8	High-Mu Triode—Sharp-Cutoff Pentode	B2	9FZ	4.7	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CQ8	Medium-Mu Triode—Sharp-Cutoff Tetrode	B2	9QE	4.7⊕	0.6	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
6CZ5	Beam Power Tube	B10	9HN	4.7⊕	0.6	Vertical-Deflection Amplifier
6DH8	High-Mu Triode—Sharp-Cutoff Pentode	B2	9EG	5.2⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6DJ4	Full-Wave Rectifier	F25	8KS	5.0F	3.0	With Capacitive-Input Filter With Inductive-Input Filter
6EA8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	4.7⊕	0.6	Each Unit as Class A Amplifier
6EU8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9JF	4.7⊕	0.6	Each Unit as Class A Amplifier
6EW6	Sharp-Cutoff Pentode	A2	7CM	5.6⊕	0.45	Class A Amplifier
6FG7	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9GF	4.7⊕	0.6	Class A Amplifier
6FV8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9FA	4.7⊕	0.6	Each Unit as Class A Amplifier
6GH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	4.7⊕	0.6	Horizontal Deflection Oscillator
6GM6	Semiremote-Cutoff Pentode	A2	7CM	5.6⊕	0.45	Class A_1 Amplifier
6GX6	Sharp-Cutoff Pentode	A2	7EN	4.7⊕	0.6	Class A Amplifier
6J6	Medium-Mu Twin-Triode	A2	7BF	4.7⊕	0.6	Each Unit as Class A Amplifier Push-Pull Class C Amplifier
6T4	Full-Wave Rectifier	F23	6T	5.0F	2.0	With Capacitive-Input Filter With Inductive-Input Filter
6T8	Triple Diode—High-Mu Triode	B2	9E	4.7⊕	0.6	Triode Unit as Class A Amplifier
6U4-G	Full-Wave Rectifier	F39	5T‡	5.0F	3.0	With Capacitive-Input Filter
6U4-GB	Full-Wave Rectifier	F25	5T‡	5.0F	3.0	With Capacitive-Input Filter With Inductive-Input Filter

te: For Key to Tube Dimensions, Description, and asing Diagrams, See Pages 58-59 and 60-74.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
5U8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	4.7⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5V3	Full-Wave Rectifier	F25	5T	5.0F	3.8	With Capacitive Input Filter With Inductive Input Filter
5V3-A	Full-Wave Rectifier	F25	5T	5.0F	3.0	With Capacitive Input Filter With Inductive Input Filter
5V4-G **5V4-GA**	Full-Wave Rectifier	F28 F17	5L‡	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter
5V6-GT	Beam Power Tube	F6	7AC	4.7⊕	0.6	Single-Tube Class A Amplifier Push-Pull Class AB_1 Amplifier
5W4 5W4-GT	Full-Wave Rectifier	E4 F8	5T 5T‡	5.0F	1.5	With Capacitive-Input Filter
5X4-G	Full-Wave Rectifier	F39	5Q	5.0F	3.0	
5X8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AK	4.7⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5Y3-G **5Y3-GT**	Full-Wave Rectifier	F28 F8	5T‡	5.0F	2.0	With Capacitive-Input Filter With Inductive-Input Filter
5Y4-G **5Y4-GA** **5Y4-GT**	Full-Wave Rectifier	F28 F25 F8	5Q	5.0F	2.0	
5Z3	Full-Wave Rectifier	K11	4C	5.0F	3.0	
5Z4	Full-Wave Rectifier	E4	5L	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter
6A3	Power Triode	K11	4D	6.3F	1.0	Amplifier
6A4 LA	Power Pentode	K8	5B	6.3F	0.3	Class A Amplifier
6A6	High-Mu Twin Power Triode	K8	7B	6.3	0.8	Amplifier
6A7 6A7S	Pentagrid Converter ◘	K5	7C	6.3	0.3	Converter
6A8 **6A8-G** **6A8-GT**	Pentagrid Converter ◘	E3 F24 F7	8A 8A‡ 8A	6.3	0.3	Converter

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6AB4	High-Mu Triode	A2	5CE	6.3	0.15	Class A Amplifier
6AB5/ 6N5	Electron-Ray Tube	K3	6R	6.3	0.15	Visual Indicator
6AB7	Sharp-Cutoff Pentode	E2	8N	6.3	0.45	Class A Amplifier
6AC5-GT	High-Mu Power Triode	F6	6Q‡	6.3	0.4	Class B Amplifier Dynamic-Coupled Amplifier With 76 Driver
6AC7	Sharp-Cutoff Pentode	E2	8N	6.3	0.45	Class A Amplifier
6AD6-G	Electron-Ray Tube	F41	7AG	6.3	0.15	Visual Indicator
6AD7-G	Low-Mu Triode—Power Pentode	F28	8AY	6.3	0.85	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6AE5-GT	Low-Mu Triode	F6	6Q‡	6.3	0.3	Class A Amplifier
6AE6-G	Twin-Plate Control Tube	F21	7AH	6.3	0.15	Remote Cutoff Triode Sharp-Cutoff Triode
6AE7-GT	Twin-Input Triode	F6	7AX	6.3	0.5	Class A Amp.AA
6AF3	Half-Wave Rectifier	B8	9CB	6.3	1.2	Television Damper Service
6AF4 6AF4-A	Medium-Mu Triode	A2 A1	7DK	6.3	0.225	Class A Amplifier Oscillator at 1000 Mc.
6AF6-G	Electron-Ray Tube	F1	7AG	6.3	0.15	Visual Indicator
6AG5	Sharp-Cutoff Pentode	A2	7BD	6.3	0.3	Pentode Unit as Class A Amplifier □Triode Unit as Class A Amplifier
6AG7	Power Pentode	E4	8Y	6.3	0.65	Class A Amplifier 4-Mc. Bandwidth Video Circuit
6AH4-GT	Low-Mu Triode	F6	8EL	6.3	0.75	Vertical Deflection Amplifier
6AH6	Sharp-Cutoff Pentode	A2	7BK	6.3	0.45	Class A Amplifier
6AK5	Sharp-Cutoff Pentode	A1	7BD	6.3	0.175	Class A Amplifier
6AK6	Power Amplifier Pentode	A2	7BK	6.3	0.15	Class A Amplifier
6AL3	Half-Wave Rectifier	B12	9CB	6.3	1.55	Damper Service
6AL5	Twin Diode	A1	6BT	6.3	0.3	Half-Wave Rectifier
6AL7-GT	Electron-Ray Tube	F8	8CH	6.3	0.15	Visual Indicator
6AM4	High-Mu Triode	B1	9BX	6.3	0.225	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6AM8 **6AM8-A**	Diode— Sharp-Cutoff Pentode	B2	9CY	6.3 6.3⊕	0.45 0.45	Diode Unit Pentode Unit as Class A Amplifier
6AN4	High-Mu Triode	A1	7DK	6.3	0.225	Class A Amplifier
6AN8 **6AN8-A**	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9DA	6.3 6.3⊕	0.45 0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6AQ5 **6AQ5-A**	Beam Power Tube	A3	7BZ	6.3 6.3⊕	0.45 0.45	Single Tube Class A Amplifier Push-Pull Class A_1 Amplifier
6AQ6	Twin-Diode— High-Mu Triode	A2	7BT	6.3	0.15	Triode Unit as Class A Amplifier
6AQ7-GT	Twin-Diode— High-Mu Triode	F6	8CK	6.3	0.3	Triode Unit as Class A Amplifier
6AQ8	Medium-Mu Twin Triode	B2	9AJ	6.3	0.435	Each Unit as Class A Amplifier
6AR5	Power Pentode	A3	6CC	6.3	0.4	Class A Amplifier
6AS5	Beam Power Tube	A3	7CV	6.3	0.8	Class A Amplifier
6AS8	Diode— Sharp-Cutoff Pentode	B2	9DS	6.3	0.45	Diode Unit Pentode Unit as Class A Amplifier
6AT6	Twin-Diode— High-Mu Triode	A2	7BT	6.3	0.3	Triode Unit as Class A Amplifier
6AT8 **6AT8-A**	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9DW	6.3 6.3⊕	0.45 0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6AU4-GT	Half-Wave Rectifier	F15	4CG	6.3	1.8	Television Damper Service
6AU4-GTA	Half-Wave Rectifier	F15	4CG	6.3	1.8	Television Damper Service
6AU5-GT	Beam Power Tube	F8	8CK	6.3	1.25	Horizontal Deflection Amplifier
6AU6 **6AU6-A**	Sharp-Cutoff Pentode	A2	7BK	6.3 6.3⊕	0.3 0.3	Class A Amplifier
6AU7	Medium-Mu Twin Triode	B2	9A	3.15 6.3	0.6 0.3	Each Unit as Class A Amplifier
6AU8	Medium-Mu Triode— Sharp-Cutoff Pentode	B4	9DX	6.3⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6AU8-A	Medium-Mu Triode— Sharp-Cutoff Pentode	B4	9DX	6.3⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6AV5-GA 6AV5-GT	Beam Power Tube	F19 F8	8CK	6.3	1.2	Horizontal Deflection Amplifier
6AV6	Twin Diode— High-Mu Triode	A2	7BT	6.3	0.3	Triode Unit as Class A Amplifier
6AW8 **6AW8-A**	High-Mu Triode— Sharp-Cutoff Pentode	B4	9DX	6.3⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier••

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6AX3	Half-Wave Rectifier	L2	12BL	6.3	1.2	Damper Service
6AX4-GT	Half-Wave Rectifier	F6	4CG	6.3	1.2	Television Damper Service
6AX4-GTB	Half-Wave Rectifier	F6	4CG	6.3	1.2	Television Damper Service
6AX5-GT	Full-Wave Rectifier	F6	6S	6.3	1.2	With Capacitive-Input Filter With Inductive-Input Filter
6AX8	Medium-Mu Triode—Semiremote Cutoff Pentode	B2	9AE	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6AY3	Novar Half-Wave Rectifier	C4	9HP	6.3	1.2	Television Damper Service
6AZ8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9ED	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6B4-G	Power-Triode	F39	8S	6.3F	1.0	Class A Amplifier
6B5	Direct-Coupled Power Triode	K8	6AS	6.3	0.8	Class A Amplifier
6B6-G	Twin-Diode—High-Mu Triode	F24	7V‡	6.3	0.3	Triode Unit as Amplifier
6B7 6B7S	Twin-Diode—Remote-Cutoff Pentode	K5	7D	6.3	0.3	Pentode Unit as Amplifier
6B8	Twin-Diode—Semiremote-Cutoff Pentode	E3	8E	6.3	0.3	Pentode Unit as Amplifier
6B8-G	Twin Diode—Semiremote-Cutoff Pentode	F24	8E‡	6.3	0.3	Pentode Unit as Class A Amplifier
6BA3	Novar Half-Wave Rectifier	C6	9HP	6.3	1.2	Television Damper Service
6BA6	Remote-Cutoff Pentode	A2	7BK	6.3	0.3	Class A Amplifier
6BA7	Pentagrid Converter ▲	B4	8CT	6.3	0.3	Converter
6BA8-A	Medium-Mu Triode Sharp-Cutoff Pentode	B4	9DX	6.3⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6BC4	Medium-Mu Triode	B1	9DR	6.3	0.225	Class A Amplifier
6BC5	Sharp-Cutoff Pentode	A2	7BD	6.3	0.3	Class A Amplifier
6BC7	Triple Diode	B2	9AX	6.3	0.45	DC Restorer in Color TV
6BC8	Medium-Mu Twin Triode	B2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6BD4	Sharp-Cutoff Beam Triode	F38	8FU	6.3	0.6	Voltage-Control

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6BD4-A	Sharp-Cutoff Beam Triode	F38	8FU	6.3	0.6	Voltage-Control
6BD6	Remote-Cutoff Pentode	A2	7BK	6.3	0.3	Class A Amplifier
6BE6	Pentagrid Converter▲	A2	7CH	6.3	0.3	Converter
6BF5	Beam Power Tube	A3	7BZ	6.3	1.2	Class A Amplifier
6BF6	Twin-Diode—Medium-Mu Triode	A2	7BT	6.3	0.3	Triode Unit as Class A Amplifier
6BG6-G 6BG6-GA	Beam Power Tube	F40 F33	5BT	6.3	0.9	Horizontal Deflection Amplifier
6BH3	Novar Half-Wave Rectifier	C4	9HP	6.3	1.6	Television Damper Service
6BH6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.15	Class A Amplifier
6BH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	6.3⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6BJ6	Remote-Cutoff Pentode	A2	7CM	6.3	0.15	Class A Amplifier
6BJ7	Triple Diode	B2	9AX	6.3	0.45	DC Restorer in Color TV
6BJ8	Twin-Diode—Medium-Mu Triode	B4	9ER	6.3⊕	0.6	Triode Unit as Class A Amplifier Triode Unit as Vertical Deflection Amplifier
6BK4	Sharp-Cutoff Beam Triode	F34	8GC	6.3	0.2	Voltage-Control
6BK5	Beam Power Tube	B4	9BQ	6.3	1.2	Class A Amplifier
6BK7-A **6BK7-B**	Medium-Mu Twin Triodes	B2	9AJ	6.3 6.3⊕	0.45 0.45	Each Unit as Class A Amplifier
6BL4	Half-Wave Rectifier	F26	8GB	6.3	3.0	Television Damper Service
6BL7-GT	Medium-Mu Twin Triode	F6	8BD	6.3	1.5	Vertical Deflection Amplifier
6BL7-GTA	Medium-Mu Twin Triode	F6	8BD	6.3	1.5	Vertical Deflection Amplifier (Unit No. 2) Vertical Deflection Oscillator (Unit No. 1)
6BL8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9DC	6.3	0.45	Class A Amplifier
6BN4	Medium-Mu Triode	A2	7EG	6.3	0.2	Class A Amplifier
6BN4-A	Medium-Mu Triode	A2	7EG	6.3	0.2	Class A Amplifier
6BN6	Beam Tube	A3	7DF	6.3	0.3	Limiter and Discriminator
6BN8	Twin-Diode—High-Mu Triode	B4	9ER	6.3⊕	0.6	Triode Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6BQ5	Power Pentode	B10	9CV	6.3	0.76	Class A Amplifier Push-Pull Class AB_1 Amplifier
6BQ6-GT	Beam Power Tube	F16	8AM	6.3	1.2	Horizontal Deflection Amplifier
6BQ6-GTA	Beam Power Tube	F16	8AM	6.3	1.2	Horizontal Deflection Amplifier
6BQ6-GTB/6CU6	Beam Power Tube	F16	8AM	6.3	1.2	Horizontal Deflection Amplifier
6BQ7	Medium-Mu Twin Triode	B2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6BQ7-A	Medium-Mu Twin Triode	B2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6BR8 **6BR8-A**	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9FA	6.3 6.3⊕	0.45 0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6BS8	Medium-Mu Twin Triode	B2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6BU8	Sharp-Cutoff Twin Pentode	B4	9FG	6.3	0.3	Class A Amplifier With Both Sections Operating
6BV8	Twin Diode—Medium-Mu Triode	B2	9FJ	6.3⊕	0.6	Triode Unit as Class A Amplifier
6BW4	Full-Wave Rectifier	B4	9DJ	6.3	0.9	With Capacitive Input Filter With Inductive Input Filter
6BW8	Twin Diode—Sharp-Cutoff Pentode	B2	9HK	6.3	0.45	Pentode Unit as Class A Amplifier
6BX7-GT	Medium-Mu Twin Triode	F6	8BD	6.3	1.5	Vertical Deflection Oscillator Vertical Deflection Amplifier
6BY5-GA	Full-Wave Rectifier	F17	6CN	6.3	1.6	Television Damper Service
6BY6	Pentagrid Amplifier	A2	7CH	6.3	0.3	Sync Separator and Sync Clipper
6BY8	Diode—Sharp-Cutoff Pentode	B4	9FN	6.3⊕	0.6	Diode Unit Pentode Unit as Class A Amplifier
6BZ6	Semiremote-Cutoff Pentode	A2	7CM	6.3	0.3	Class A Amplifier
6BZ7	Medium-Mu Twin-Triode	B2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6BZ8	Medium-Mu Twin Triode	B2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6C4	Power Triode	A2	6BG	6.3	0.15	Class A Amplifier Class C Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6C5 **6C5-GT**	Medium-Mu Triode	E2 F7	6Q 6Q	6.3	0.3	Class A Amplifier
6C6	Sharp-Cutoff Pentode	K9	8F	6.3	0.3	Amplifier Detector
6C7	Twin-Diode—Medium-Mu Triode	K5	7G	6.3	0.3	Triode Unit as Class A Amplifier
6C8-G	Medium-Mu Twin-Triode	F24	8G	6.3	0.3	Each Unit as Class A Amplifier
6CA4	Full-Wave Rectifier	B10	9M	6.3	1.0	With Capacitive-Input Filter
6CA5	Beam Power Tube	A3	7CV	6.3	1.2	Class A Amplifier
6CB5	Beam Power Tube	F36	8GD	6.3	2.5	Horizontal Deflection Amplifier
6CB5-A	Beam Power Tube	F33 F34	8GD	6.3	2.5	Horizontal Deflection Amplifier
6CB6 **6CB6-A**	Sharp-Cutoff Pentode	A2	7CM	6.3 6.3⊕	0.3 0.3	Class A Amplifier
6CD6-G **6CD6-GA**	Beam Power Tube	F40 F33	5BT	6.3	2.5	Horizontal Deflection Amplifier
6CE5	Sharp-Cutoff Pentode	A2	7BD	6.3⊕	0.3	Class A Amplifier
6CF6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.3	Class A Amplifier
6CG7	Medium-Mu Twin-Triode	B4	9AJ	6.3⊕	0.6	Horizontal Deflection Oscillator Vertical Deflection Oscillator
6CG8 **6CG8-A**	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9GF	6.3 6.3⊕	0.45 0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9FT	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CK4	Low-Mu Triode	F9	8JB	6.3	1.25	Vertical Deflection Amplifier
6CL6	Power Pentode	B4	9BV	6.3	0.65	Class A Amplifier 4-Mc. Bandwidth Video Circuit
6CL8	Medium-Mu Triode—Sharp-Cutoff Tetrode	B2	9FX	6.3⊕	0.45	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
6CL8-A	Medium-Mu Triode—Sharp-Cutoff Tetrode	B2	9FX	6.3⊕	0.45	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
6CM6	Beam Power Tube	B4	9CK	6.3	0.45	Class A Amplifier Vertical Deflection Amplifier
6CM7	Medium-Mu Dual Triode	B4	9ES	6.3⊕	0.6	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D	Volts	Amps.	
6CM8	High-Mu Triode— Sharp-Cutoff Pentode	B2	9FZ	6.3⊕	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CN7	Twin Diode— High-Mu Triode	B2	9EN	3.15⊕ 6.3	0.6 0.3	Triode Unit as Class A Amplifier
6CQ4	Half-Wave Rectifier	F15	4CG	6.3	1.6	Damper Service
6CQ8	Medium-Mu Triode— Sharp-Cutoff Tetrode	B2	9GE	6.3⊕	0.45	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
6CR6	Diode— Remote-Cutoff Pentode	A2	7EA	6.3	0.3	Pentode Unit as Class A Amplifier
6CS6	Pentagrid Amplifier	A2	7CH	6.3	0.3	Sync Separator and Sync Clipper Class A Amplifier
6CS7	Medium-Mu Dual Triode	B4	9EF	6.3⊕	0.6	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6CU5	Beam Power Tube	A3	7CV	6.3	1.2	Class A Amplifier
6CU6	Beam Power Tube	F22	8AM	6.3	1.2	Horizontal Deflection Amplifier
6CU8	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9GM	6.3⊕	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CW4	Nuvistor High-Mu Triode	D1	12AQ	6.3	0.135	Class A Amplifier
6CX8	Medium-Mu Triode— Sharp-Cutoff Pentode	B4	9DX	6.3	0.75	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CY5	Sharp-Cutoff Tetrode	A2	7EW	6.3	0.2	Class A Amplifier
6CY7	Dual Triode	B4	9EF	6.3	0.75	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6CZ5	Beam Power Tube	B10	9HN	6.3	0.45	Vertical Deflection Amplifier
6D6	Remote-Cutoff Pentode	K9	6F	6.3	0.3	Amplifier Mixer
6D7	Sharp-Cutoff Pentode	K9	7H	6.3	0.3	Amplifier Detector
6D8-G	Pentagrid Converter ⊠	F24	8A‡	6.3	0.15	Converter
6DA4	Half-Wave Rectifier	F8	4CG	6.3	1.2	Television Damper Service
6DB5	Beam Power Tube	B6	9GR	6.3	1.2	Vertical Deflection Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ◎ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6DC6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.3	Class A Amplifier
6DC8	Twin Diode—Remote-Cutoff Pentode	B4	9HE	6.3	0.3	Class A Amplifier
6DE4	Half-Wave Rectifier	F15	4CG	6.3	1.6	Television Damper Service
6DE6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.3	Class A Amplifier
6DE7	Dual Triode	B4	9HF	6.3	0.9	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6DG6-GT	Beam Power Tube	F6	7S	6.3	1.2	Class A Amplifier
6DK6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.3	Class A Amplifier
6DM4	Half-Wave Rectifier	F15	4CG	6.3	1.2	Damper Service
6DN6	Beam Power Tube	F33	5BT	6.3	2.5	Horizontal Deflection Amplifier
6DN7	Medium-Mu Dual Triode	F4	8BD	6.3	0.9	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6DQ5	Beam Power Tube	F33	8JC	6.3	2.5	Horizontal Deflection Amplifier
6DQ6-A	Beam Power Tube	F22	6AM	6.3	1.2	Horizontal Deflection Amplifier
6DQ6-B	Beam Power Tube	F22	6AM	6.3	1.2	Horizontal Deflection Amplifier
6DR7	Dual Triode	B4	9HF	6.3	0.9	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6DS4	Nuvistor High-Mu Triode	D1	12AQ	6.3	0.135	Class A Amplifier
6DS5	Beam Power Tube	A3	7BZ	6.3	0.8	Class A Amplifier
6DT5	Beam Power Tube	B4	9HN	6.3	1.2	Vertical Deflection Amplifier
6DT6	Sharp-Cutoff Pentode	A2	7EN	6.3	0.3	Class A Amplifier
6DT6-A	Sharp-Cutoff Pentode	A2	7EN	6.3	0.3	Class A Amplifier FM Detector
6DT8	High-Mu Twin Triode	B2	9DE	6.3	0.3	Class A Amplifier
6DW4	Novar Half-Wave Rectifier	C4	9HP	6.3	1.2	Damper Service
6DW5	Beam Power Tube	B10	9CK	6.3	1.2	Vertical Deflection Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6DX8	High-Mu Triode—Sharp-Cutoff Pentode	B4	9HX	6.3	0.72	Class A Amplifier
6DZ7	Twin Power Pentode	F17	8JP	6.3	1.52	Each Unit as Class A Amplifier Both Units as Push-Pull Class AB_1 Amplifier
6E5	Electron-Ray Tube	K3	6R	6.3	0.3	Visual Indicator
6E6	Twin Power Amplifier	K8	7B	6.3	0.6	Push-Pull Class A Amplifier
6E7	Remote-Cutoff Pentode	K9	7H	6.3	0.3	Amplifier
6EA5	Sharp-Cutoff Tetrode	A2	7EW	6.3	0.2	Class A Amplifier
6EA7	Dual Triode	F4	8BD	6.3	1.05	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6EA8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	6.3⊕	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6EB5	Twin Diode	A2	6BT	6.3	0.3	Voltage Doubler
6EB8	High-Mu Triode—Sharp-Cutoff Pentode	B2	9DX	6.3	0.75	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6EH5	Power Pentode	A3	7CV	6.3	1.2	Class A Amplifier
6EH7	Semiremote-Cutoff Pentode	B7	9AQ	6.3	0.3	Class A Amplifier
6EH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9JG	6.3⊕	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6EJ7	Sharp-Cutoff Pentode	B7	9AQ	6.3	0.3	Class A Amplifier
6EM5	Beam Power Tube	B10	9HN	6.3	0.8	Vertical Deflection Amplifier
6EM7	Dual Triode	F3	8BD	6.3	0.9	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6EQ7	Diode—Remote-Cutoff Pentode	B4	9LQ	6.3	0.3	Pentode Unit as Class A Amplifier
6ER5	High-Mu Triode	A2	7FP	6.3	0.18	Class A Amplifier
6ES5	High-Mu Triode	A2	7FP	6.3	0.2	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6ES8	Medium-Mu Twin Triode	B2	9AJ	6.3	0.365	Each Unit as Class A Amplifier
6EU7	High-Mu Twin Triode	B2	9LS	6.3	0.3	Class A Amplifier
6EU8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9JF	6.3⊕	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6EV5	Sharp-Cutoff Tetrode	A2	7EW	6.3	0.2	Class A Amplifier
6EV7	High-Mu Twin Triode	B4	9LP	6.3	0.6	Relay Control
6EW6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.4	Class A Amplifier
6EW7	Dual Triode	H1	9HF	6.3	0.9	Vertical Deflection Oscillator Vertical Deflection Amplifier
6EX6	Beam Power Tube	F33	5BT	6.3⊕	2.25	Horizontal Deflection Amplifier
6EY6	Beam Power Tube	F9	7AC	6.3⊕	0.68	Vertical Deflection Amplifier
6EZ5	Beam Power Tube	F9	7AC	6.3	0.8	Vertical Deflection Amplifier
6EZ8	High-Mu Triple Triode	B2	9KA	6.3	0.45	Class A Amplifier
6F5 6F5-GT	High-Mu Triode	E3 F6	5M 5M‡	6.3	0.3	Class A Amplifier
6F6 6F6-G 6F6-GT	Power Pentode	E4 F28 F9	7S 7S‡ 7S‡	6.3	0.7	Pentode Class A Amplifier Triode□ Class A Amplifier Pentode Push-Pull Class A Amplifier
6F7	Low-Mu Triode—Remote-Cutoff Pentode	K5	7E	6.3	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6F8-G	Medium-Mu Twin Triode	F24	8G	6.3	0.6	Each Unit as Class A Amplifier
6FA7	Diode—Sharp-Cutoff Twin-Plate Tetrode	B4	9MR	6.3	0.3	Freq. Divider and Complex-Wave Generator
6FD7	Dual Triode	H1	9HF	6.3	0.925	Vertical Deflection Oscillator Vertical Deflection Amplifier
6FE5	Beam Power Tube	F15	8KB	6.3	1.2	Class A Amplifier
6FG6	Electron-Ray Tube	B4	9GA	6.3	0.27	Visual Indicator
6FG7	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9GF	6.3⊕	0.45	Pentode Unit as Class A Amplifier Triode Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6FH5	Medium-Mu Triode	A2	7FP	6.3	0.2	Class A Amplifier
6FH8	Medium-Mu Triode—Triple-Plate Tetrode	B2	9KP	6.3	0.45	Tetrode Unit as Harmonic Gen. Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
6FM8	Twin Diode—High-Mu Triode	B2	9KR	6.3	0.45	Triode Unit as Class A Amplifier
6FQ5-A	High-Mu Triode	A2	7FP	6.3	0.18	Class A Amplifier
6FQ7	Medium-Mu Twin Triode	B4	9LP	6.3⊕	0.6	Each Unit as Class A Amplifier
6FS5	Beam Pentode	A2	7GA	6.3	0.2	Class A Amplifier
6FV6	Sharp-Cutoff Tetrode	A2	7FQ	6.3	0.2	Class A Amplifier
6FV8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9FA	6.3⊕	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6FW5	Beam Power Tube	F17	6CK	6.3	1.2	Horizontal-Deflection Amplifier
6FW8	Medium-Mu Twin Triode	B2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6G6-G	Power Pentode	F21	7S‡	6.3	0.15	Pentode Class A Amplifier
6GC5	Power Pentode	H2	9EU	6.3	1.2	Class A Amplifier
6GF7	Dual Triode	C7	9QD	6.3	0.985	Vertical-Deflection Oscillator Vertical-Deflection Amplifier
6GH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	6.3⊕	0.45	Triode Unit as Horiz. Defl. Osc. Pentode Unit as Horiz. Defl. Osc.
6GJ5	Novar Beam Power Tube	C3	9NM	6.3	1.2	Horizontal Deflection Amplifier
6GJ8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	6.3⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6GK5	High-Mu Triode	A2	7FP	6.3	0.18	Class A Amplifier
6GK6	Power Pentode	B10	9GK	6.3	0.76	Class A Amplifier
6GL7	Dual Triode	F4	8BD	6.3	1.05	Vertical Deflection Oscillator Vertical-Deflection Amplifier
6GM6	Semiremote-Cutoff Pentode	A2	7CM	6.3	0.4	Class A Amplifier
6GN8	High-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	6.3⊕	0.75	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6GT5	Beam Power Tube	C22	9NZ	6.3	1.2	Horizontal Deflection Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6GV8	High-Mu Triode—Power Pentode	B10	9LY	6.3	0.9	Class A Amplifier
6GW6 **6GW6/6DQ6**	Beam Power Tube	F22	8AM	6.3⊕	1.2	Horizontal Deflection Amplifier
6GX6	Sharp-Cutoff Pentode	A2	7EN	6.3⊕	0.45	Class A Amplifier
6GY6	Sharp-Cutoff Pentode	A2	7EN	6.3⊕	0.45	Gated-AGC Amplifier and Noise Inverter
6GY8	Triple High-Mu Triode	B2	9MB	6.3	0.45	Each Unit as Class A Amplifier
6H6 6H6-GT	Twin Diode	E1 F6	7Q 7Q‡‡	6.3	0.3	Voltage Doubler Half-Wave Rectifier
6HB6	Power Pentode	B10	9PU	6.3	0.76	Class A Amplifier
6HF8	High-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	6.3	0.75	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6HJ8	Diode—Sharp-Cutoff Pentode	B2	9CY	6.3⊕	0.45	Pentode Unit as Class A Amplifier
6HR6	Semiremote—Cutoff Pentode	A2	7BK	6.3⊕	0.45	Class A Amplifier
6HS6	Sharp-Cutoff Pentode	A2	7BK	6.3⊕	0.45	Class A Amplifier
6HS8	Sharp-Cutoff Twin Pentode	B4	9FG	6.3	0.3	Class A Amplifier (With both sections operating)
6HZ6	Sharp-Cutoff Pentode	A2		6.3⊕	0.45	Class A Amplifier
6J5 **6J5-GT**	Medium-Mu Triode	E2 F7	6Q 6Q‡	6.3	0.3	Class A Amplifier
6J6 **6J6-A**	Medium-Mu Twin Triode	A2	7BF	6.3 6.3⊕	0.45 0.45	Each Unit as Class A Amplifier Push-Pull Class C Amplifier
6J7 6J7-G **6J7-GT**	Sharp-Cutoff Pentode	E3 F24 F7	7R 7R‡‡ 7R‡	6.3	0.3	Pentode Class A RF Amplifier
6J8-G	Triode-Heptode Converter	F24	8H	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer
6JC8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9PA	6.3⊕	0.45	Class A Amplifier
6JH8	Beam-Deflection Tube	B4	9DP	6.3	0.3	Detector
6JK8	Dual Triode	B2	9AJ	6.3	0.40	Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6JU8	Quadruple Diode	B4	9PQ	6.3	0.6	Detector Service
6K5-GT	High-Mu Triode	F7	5U	6.3	0.3	Class A Amplifier
6K6-GT	Power Pentode	F6	7S‡	6.3	0.4	Single-Tube Class A Amplifier Push-Pull Class A Amplifier
6K7 6K7-G **6K7-GT**	Remote-Cutoff Pentode	E3 F24 F7	7R 7R‡ 7R‡	6.3	0.3	Class A Amplifier
6K8 6K8-G 6K8-GT	Triode-Hexode Converter	E3 F24 F12	8K 8K‡ 8K‡	6.3	0.3	Triode Unit as Oscillator Hexode Unit as Mixer
6K11	Twin High-Mu Triode—Medium-Mu Triode	L1	12BY	6.3⊕	0.6	Twin Unit as Class A Amplifier Class A Amplifier
6KA8	High-Mu Triode—Sharp-Cutoff Pentode	B4	9PV	6.3⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6KL8	Diode—Sharp-Cutoff Pentode	B4	9LQ	6.3	0.3	Class A Amplifier
6KM8	Diode—Sharp-Cutoff Triple-Plate Tetrode	B4	9QG	6.3	0.3	Class A Amplifier
6L5-G	Medium-Mu Triode	F21	6Q‡	6.3	0.15	Class A Amplifier
6L6 6L6-G **6L6-GB** **6L6-GC**	Beam Power Tube	E5 F39 F22 F22	7AC 7AC‡ 7AC 7AC	6.3	0.9	Single-Tube Class A Amplifier Push-Pull Class A Amplifier Push-Pull Class AB_1 Amplifier
6L7 6L7-G	Pentagrid Mixer▲	E3 F24	7T 7T‡	6.3	0.3	Mixer Service
6N6-G	Direct-Coupled Power Triode	F28	7AU	6.3	0.8	Class A Amplifier
6N7 **6N7-GT**	Medium-Mu Twin Power Triode	E4 F6	8B 8B‡	6.3	0.8	Class A Amplifier (as Driver)° Class B Amplifier
6P5-GT	Medium-Mu Triode	F6	6Q‡	6.3	0.3	Amplifier Detector
6P7-G	Low-Mu Triode—Remote-Cutoff Pentode	F24	7U	6.3	0.3	Amplifier and Converter
6Q7 6Q7-G **6Q7-GT**	Twin Diode High-Mu Triode	E3 F24 F7	7V 7V‡ 7V‡	6.3	0.3	Triode Unit as Class A Amplifier
6R7 6R7-G 6R7-GT	Twin Diode—Medium-Mu Triode	E3 F24 F6	7V 7V‡ 7V‡	6.3	0.3	Triode Unit as Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6S4 **6S4-A**	Medium-Mu Triode	B4	8AC	6.3 6.3⊕	0.6 0.6	Vertical Deflection Amplifier
6S7 6S7-G	Remote-Cutoff Pentode	E3 F24	7R 7R‡	6.3	0.15	Class A Amplifier
6S8-GT	Triple Diode—High-Mu Triode	F8	8CB	6.3	0.3	Triode Unit as Class A Amplifier
6SA7 **6SA7-GT**	Pentagrid Converter▲	E2 F8	8R 8AD	6.3	0.3	Mixer
6SB7-Y	Pentagrid Converter▲	E2	8R	6.3	0.3	Mixer
6SC7	High-Mu Twin Triode	E2	8S	6.3	0.3	Each Unit as Amplifier
6SF5 **6SF5-GT**	High-Mu Triode	E2 F8	8AB 8AB‡	6.3	0.3	Class A Amplifier
6SF7	Diode—Remote-Cutoff Pentode	E2	7AZ	6.3	0.3	Pentode Unit as Class A Amplifier
6SG7	Semiremote-Cutoff Pentode	E2	8BK	6.3	0.3	Class A Amplifier
6SH7	Sharp-Cutoff Pentode	E2	8BK	6.3	0.3	Class A Amplifier
6SJ7 **6SJ7-GT**	Sharp-Cutoff Pentode	E2 F7	8N 8N‡	6.3	0.3	Class A Amplifier
6SK7 **6SK7-GT**	Remote-Cutoff Pentode	E2 F7	8N 8N‡	6.3	0.3	Class A Amplifier
6SL7-GT	High-Mu Twin Triode	F8	8BD	6.3	0.3	Each Unit as Class A Amplifier
6SN7-GT 6SN7-GTA **6SN7-GTB**	Medium-Mu Twin Triode	F8	8BD	6.3 6.3 6.3⊕	0.6 0.6 0.6	Each Unit as Class A Amplifier Each Unit as Vertical Amplifier
6SQ7 **6SQ7-GT**	Twin-Diode—High-Mu Triode	E2 F7	8Q 8Q‡	6.3	0.3	Triode Unit as Class A Amplifier
6SR7	Twin Diode—Medium-Mu Triode	E2	8Q	6.3	0.3	Triode Unit as Class A Amplifier
6SS7	Remote-Cutoff Pentode	E2	8N	6.3	0.15	Class A Amplifier
6ST7	Twin Diode—Medium-Mu Triode	E2	8Q	6.3	0.15	Triode Unit as Amplifier
6SZ7	Twin Diode—High-Mu Triode	E2	8Q	6.3	0.15	Triode Unit as Class A Amplifier
6T4	Medium-Mu Triode	A1	7DK	6.3	0.225	Oscillator in UHF TV Receivers Class A Amplifier
6T7-G	Twin Diode—High-Mu Triode	F24	7V‡	6.3	0.15	Triode Unit as Class A Amplifier
6T8 **6T8-A**	Triple Diode—High-Mu Triode	B2	9E	6.3 6.3⊕	0.45 0.45	Triode Unit as Class A Amplifier
6U5	Electron-Ray Tube	K3	6R	6.3	0.3	Visual Indicator
6U7-G	Remote-Cutoff Pentode	F32	7R‡	6.3	0.3	Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6U8 **6U8-A**	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	6.3 6.3⊕	0.45 0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6V3-A	Half-Wave Rectifier	B8	9BD	6.3	1.75	Television Damper Service
6V6 **6V6-GT** **6V6-GTA**	Beam Power Tube	E4 F6 F6	7AC 7AC‡ 7AC‡	6.3 6.3 6.3⊕	0.45 0.45 0.45	Single-Tube Class A Amplifier Push-Pull Class AB_1 Amplifier
6V7-G	Twin Diode—Low-Mu Triode	F24	7V‡	6.3	0.3	Triode Unit as Amplifier
6W4-GT	Half-Wave Rectifier	F6	4CQ	6.3	1.2	With Capacitive-Input Filter
6W6-GT	Beam Power Tube	F6	7AC‡	6.3	1.2	Vertical Deflection Amplifier
6W7-G	Sharp-Cutoff Pentode	F24	7R‡	6.3	0.15	Class A Amplifier
6X4	Full-Wave Rectifier	A3	5BS	6.3	0.6	With Capacitive-Input Filter With Inductive-Input Filter
6X5 **6X5-GT**	Full-Wave Rectifier	E4 F6	6S 6S‡	6.3	0.6	With Capacitive-Input Filter With Inductive-Input Filter
6X8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AK	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6Y5	Full-Wave Rectifier	K4	6J	6.3	0.8	With Capacitive-Input Filter
6Y6-G **6Y6-GA**	Beam Power Tube	F28 F19	7AC‡	6.3	1.25	Single-Tube Class A Amplifier
6Y7-G	High-Mu Twin Power Triode	F21	8B‡	6.3	0.6	Class B Amplifier
6Z4	Full-Wave Rectifier	K4	5D	6.3	0.5	
6Z5	Full-Wave Rectifier	K4	6K	6.3 12.6	0.8 0.4	With Capacitive-Input Filter
6Z7-G	High-Mu Twin Power Triode	F21	8B‡	6.3	0.3	Class B Amplifier
6ZY5-G	Full-Wave Rectifier	F21	6S‡	6.3	0.3	With Capacitive-Input Filter
7A4	Medium-Mu Triode	J2	5AC	6.3	0.3	Amplifier
7A5	Beam Power Tube	J3	6AA	6.3	0.75	Class A Amplifier
7A6	Twin Diode	J2	7AJ	6.3	0.15	Detector Rectifier
7A7	Remote-Cutoff Pentode	J2	8V	6.3	0.3	Class A Amplifier
7A8	Octode Converter	J2	8U	6.3	0.15	Converter
7AD7	Power Pentode	J3	8V	6.3	0.6	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
7AF7	Medium-Mu Twin Triode	J2	8AC	6.3	0.3	Each Unit as Class A Amplifier
7AG7	Sharp-Cutoff Pentode	J2	8V	6.3	0.15	Class A Amplifier
7AH7	Sharp-Cutoff Pentode	J2	8V	6.3	0.15	Class A Amplifier
7AU7	Medium-Mu Twin-Triode	B2	9A	3.5⊕ 7.0	0.6 0.3	Each Unit as Class A Amplifier
7B4	High-Mu Triode	J2	5AC	6.3	0.3	Amplifier
7B5	Power Pentode	J3	5AE	6.3	0.4	Class A Amplifier
7B6	Twin Diode—High-Mu Triode	J2	8W	6.3	0.3	Triode Unit as Amplifier
7B7	Remote-Cutoff Pentode	J2	8V	6.3	0.15	Class A Amplifier
7B8	Pentagrid Converter●	J2	8X	6.3	0.3	Converter
7C5	Beam Power Tube	J3	8AA	6.3	0.45	Class A Amplifier
7C6	Twin Diode—High-Mu Triode	J2	8W	6.3	0.15	Triode Unit as Class A Amplifier
7C7	Sharp-Cutoff Pentode	J2	8V	6.3	0.15	Class A Amplifier
7E6	Twin Diode—Medium-Mu Triode	J2	8W	6.3	0.3	Triode Unit as Amplifier
7E7	Twin Diode—Remote-Cutoff Pentode	J2	8AE	6.3	0.3	Pentode Unit as Class A Amplifier
7EY6	Beam Power Tube	F9	7AC	7.2⊕	0.6	Vertical Deflection Amplifier
7F7	High-Mu Twin Triode	J2	8AC	6.3	0.3	Each Unit as Amplifier
7F8	Medium-Mu Twin Triode	J2	8BW	6.3	0.3	Each Unit as Class A Amplifier
7G7	Sharp-Cutoff Pentode	J2	8V	6.3	0.45	Class A Amplifier
7H7	Semiremote-Cutoff Pentode	J2	8V	6.3	0.3	Class A Amplifier
7J7	Triode-Heptode Converter	J2	8BL	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer
7K7	Twin Diode—High-Mu Triode	J2	8BF	6.3	0.3	Triode Unit as Class A Amplifier
7L7	Sharp-Cutoff Pentode	J2	8V	6.3	0.3	Class A Amplifier
7N7	Medium-Mu Twin-Triode	J3	8AC	6.3	0.6	Each Unit as Class A Amplifier
7Q7	Pentagrid Converter▲	J2	8AL	6.3	0.3	Converter
7R7	Twin Diode—Remote-Cutoff Pentode	J2	8AE	6.3	0.3	Pentode Unit as Class A Amplifier
7S7	Triode-Heptode Converter	J2	8BL	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
7V7	Sharp-Cutoff Pentode	J2	8V	6.3	0.45	Class A Amplifier
7W7	Sharp-Cutoff Pentode	J2	8BJ	6.3	0.45	Class A Amplifier
7X7	Twin Diode—High-Mu Triode	J3	8BZ	6.3	0.3	Triode Unit as Class A Amplifier
7Y4	Full-Wave Rectifier	J2	5AB	6.3	0.5	With Capacitive-Input Filter
7Z4	Full-Wave Rectifier	J3	5AB	6.3	0.9	With Capacitive-Input Filter
8AU8	Medium-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	8.4	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
8AW8-A	High-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	8.4⊕	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
8BA8-A	Medium-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	8.4⊕	0.45	Class A Amplifier
8BH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	8.4	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
8BN8	Twin Diode—High-Mu Triode	B4	9ER	8.4	0.45	Triode Unit as Class A Amplifier
8BQ5	Power Pentode	B10	9CV	8.0⊕	0.6	Class A Amplifier Push-Pull Class AB_1 Amplifier
8CG7	Medium-Mu Twin Triode	B4	9AJ	8.4⊕	0.45	Horizontal Deflection Oscillator Vertical Deflection Oscillator
8CM7	Medium-Mu Dual Triode	B4	9ES	8.4⊕	0.45	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
8CN7	Twin Diode—High-Mu Triode	B2	9EN	4.2⊕ 8.4	0.45 0.225	Triode Unit as Class A Amplifier
8CS7	Medium-Mu Dual Triode	B4	9EF	8.4⊕	0.45	Vertical Oscillator and Amplifier
8CX8	Medium-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	8.0⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
8EB8	High-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	8.0⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
8EM5	Beam Power Tube	B10	9HN	8.0⊕	0.6	Vertical Deflection Amplifier
8ET7	Twin Diode—Sharp-Cutoff Pentode	B4	9LT	8.4⊕	0.6	Pentode Unit as Class A Amplifier
8FQ7	Medium-Mu Twin Triode	B4	9LP	8.4⊕	0.45	Vertical and Horizontal Deflection Oscillators

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified, all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
8GN8	High-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	8.0⊕	0.6	Class A Amplifier
8KA8	High-Mu Triode—Sharp-Cutoff Pentode	B4	9PV	8.4⊕	0.45	Each Unit as Class A Amplifier
8SN7-GTB	Medium-Mu Twin Triode	F6	8BD	8.4⊕	0.45	Vertical Deflection Osc. & Ampl.
9AU7	Medium-Mu Twin Triode	B2	9A	4.7⊕ 9.4	0.45 0.225	Each Unit as Class A Amplifier
9BR7	Twin Diode—High-Mu Triode	B2	9CF	4.7⊕ 9.4	0.6 0.3	Triode Unit as Class A Amplifier
9CL8	Medium-Mu Triode—Sharp-Cutoff Tetrode	B2	9FX	9.5⊕	0.3	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
9U8-A	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	9.45⊕	0.3	Triode Unit as Class A Amplifier Pentode Unit
10	Power Triode	K11	4D	7.5F	1.25	Class A Amplifier
10C8	High-Mu Triode—Sharp-Cutoff Pentode	B2	9DA	10.5⊕	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
10DE7	Dual Triode	B4	9HF	9.7⊕	0.6	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
10DR7	Dual Triode	B4	9HF	9.7⊕	0.6	Vertical Oscillator and Amplifier
10EG7	Dual Triode	F4	8BD	9.7⊕	0.6	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
10EM7	Dual Triode	F3	8BD	9.7⊕	0.6	Vertical Oscillator and Amplifier
10GF7	Dual Triode	C7	9QD	9.7⊖	0.6	Vertical-Deflection Oscillator Vertical-Deflection Amplifier
10HF8	High-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	10.5⊕	0.45	Class A Amplifier
11CY7	Dual Triode	B4	9LG	11⊕	0.45	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
11 12	Detector Amplifier	K2 K7	4F 4D	1.1F	0.25	Class A Amplifier
12A5	Power Pentode	K4	7F	6.3 12.6	0.6 0.3	Class A Amplifier
12A7	Rectifier—Power Pentode	K5	7K	12.6	0.3	Pentode Unit as Class A Amplifier Half-Wave Rectifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
12A8-GT	Pentagrid Converter ◘	F7	8A	12.6	0.15	Converter
12AB5	Beam Power Tube	B4	9EU	10.0 to 15.9	0.2 approx. at 12.6 v	Class A Amplifier Push-Pull Class AB_1 Amplifier
12AC6	Remote-Cutoff Pentode⊙	A2	7BK	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12AD6	Pentagrid Converter⊙	A2	7CH	10.0 to 15.9	0.15 approx. at 12.6 v	Converter
12AE6	Twin Diode—Medium-Mu Triode⊙	A2	7BT	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12AE6-A	Twin Diode—Medium-Mu Triode⊙	A2	7BT	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12AE7	Dual Triode	B2	9A	10.0 to 15.9	0.45 approx. at 12.6V	Unit No. 1 as Class A Amplifier Unit No. 2 as Class A Amplifier
12AF3	Half-Wave Rectifier	B8	9CB	12.6⊕	0.6	Television Damper Service
12AF6	Remote-Cutoff Pentode⊙	A2	7BK	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12AH7-GT	Medium-Mu Twin Triode	F6	8BE	12.6	0.15	Each Unit as Class A Amplifier
12AJ6	Twin Diode—Medium-Mu Triode⊙	A2	7BT	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12AL5	Twin Diode	A1	6BT	12.6	0.15	Detector-Rectifier
12AL8	Medium-Mu Triode—Power Tetrode⊙	B4	9GS	10.0 to 15.9	0.55 approx. at 12.6 v	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
12AQ5	Beam Power Tube	A3	7BZ	12.6	0.225	Amplifier
12AS5	Beam Power Tube	A3	7CV	12.6	0.4	Class A Amplifier
12AT6	Twin Diode—High-Mu Triode	A2	7BT	12.6	0.15	Triode Unit as Class A Amplifier
12AT7	High-Mu Twin Triode	B2	9A	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AU6	Sharp-Cutoff Pentode	A2	7BK	12.6	0.15	Class A Amplifier
12AU7 **12AU7-A**	Medium-Mu Twin Triode	B2	9A	6.3 12.6	0.3 0.15	Each Unit As Class A Amplifier
12AV5-GA	Beam Power Tube	F19	8CK	12.6⊕	0.6	Horizontal Deflection Amplifier
12AV6	Twin Diode—High-Mu Triode	A2	7BT	12.6	0.15	Triode Unit as Class A Amplifier
12AV7	Medium-Mu Twin-Triode	B2	9A	6.3 12.6	0.45 0.225	Each Unit as Class A Amplifier
12AW6	Sharp-Cutoff Pentode	A2	7CM	12.6	0.15	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
12AX4-GT **12AX4-GTA**	Half-Wave Rectifier	F6	4CG	12.6 12.6⊕	0.6 0.6	Television Damper Service
12AX4-GTB	Half-Wave Rectifier	F8	4CG	12.6⊕	0.6	Television Damper Service
12AX7	High-Mu Twin-Triode	B2	9A	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AY3	Novar Half-Wave Rectifier	C4	9HP	12.6⊕	0.6	Television Damper Service
12AY7	Medium-Mu Twin Triode	B2	9A	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AZ7	High-Mu Twin Triode	B2	9A	6.3 12.6	0.45 0.225	Each Unit as Class A Amplifier
12AZ7-A	High-Mu Twin Triode	B2	9A	6.3⊕ 12.6	0.45 0.225	Each Unit as Class A Amplifier
12B4-A	Low-Mu Triode	B4	9AG	6.3⊕ 12.6	0.6 0.3	Vertical Deflection Amplifier
12B8-GT	High-Mu Triode—Remote-Cutoff Pentode	F13	8T	12.6	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
12BA6	Remote-Cutoff Pentode	A2	7BK	12.6	0.15	Class A Amplifier
12BA7	Pentagrid Converter▲	B4	8CT	12.6	0.15	Converter
12BD6	Remote-Cutoff Pentode	A2	7BK	12.6	0.15	Class A Amplifier
12BE6	Pentagrid Converter▲	A2	7CH	12.6	0.15	Converter
12BF6	Twin Diode—Medium-Mu Triode	A2	7BT	12.6	0.15	Triode Unit as Class A Amplifier
12BH7 **12BH7-A**	Medium-Mu Twin Triode	B4	9A	6.3⊕ 12.6	0.6 0.3	Vertical Deflection Amplifier
12BK5	Beam Power Tube	B4	9BQ	12.6⊕	0.6	Class A Amplifier
12BL6	Remote-Cutoff Pentode⊙	A2	7BK	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12BQ6-GTA	Beam Power Tube	F16	6AM	12.6⊕	0.6	Horizontal Deflection Amplifier
12BQ6-GTB/12CU6	Beam Power Tube	F16	6AM	12.6⊕	0.6	Horizontal Deflection Amplifier
12BR7	Twin Diode—High-Mu Triode	B2	9CF	6.3 12.6	0.45 0.225	Triode Unit as Class A Amplifier
12BV7	Sharp-Cutoff Pentode	B4	9BF	6.3 12.6	0.6 0.3	Class A Amplifier
12BY7 **12BY7-A**	Sharp-Cutoff Pentode	B4	9BF	6.3⊕ 12.6	0.6 0.3	Class A Amplifier
12BZ6	Semiremote-Cutoff Pentode	A2	7CM	12.6	0.15	Class A Amplifier
12BZ7	High-Mu Twin Triode	B4	9A	6.3 12.6	0.6 0.3	Each Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊖ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
12C8	Twin Diode—Semiremote-Cutoff Pentode	E3	8E	12.6	0.15	Pentode Unit as RF Amplifier
12CA5	Beam Power Tube	A3	7CV	12.6⊖	0.6	Class A Amplifier
12CN5	Remote-Cutoff Pentode⊙	A3	7CV	10.0 to 15.9	0.45 approx. at 12.6 v	Class A Amplifier
12CR6	Diode—Remote-Cutoff Pentode	A2	7EA	12.6	0.15	Pentode Unit as Class A Amplifier
12CS6	Pentagrid Amplifier	A2	7CH	12.6	0.15	Sync Separator, Sync Clipper, and Class A Amplifier
12CT8	Medium-Mu Triode—Sharp-Cutoff Pentode	B4	9DA	12.6⊖	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
12CU5/12C5	Beam Power Tube	A3	7CV	12.6⊖	0.6	Class A Amplifier
12CU6	Beam Power Tube	F22	6AM	12.6⊖	0.6	Horizontal Deflection Amplifier
12CX6	Remote-Cutoff Pentode⊙	A2	7BK	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12D4	Half-Wave Rectifier	F6	4CG	12.6⊖	0.6	Television Damper Service
12DB5	Beam Power Tube	B4	9GR	12.6⊖	0.6	Vertical Deflection Amplifier
12DE8	Diode—Remote-Cutoff Pentode⊙	B2	9HG	10.0 to 15.9	0.2 approx. at 12.6V	Pentode Unit as Class A Amplifier
12DK6	Sharp-Cutoff Pentode	A2	7CM	12.6	0.15	Class A Amplifier
12DK7	Twin Diode—Power Tetrode⊙	B2	9HZ	10.0 to 15.9	0.5 approx. at 12.6V	Tetrode Unit as Class A Amplifier
12DL8	Twin Diode—Power Tetrode⊙	B4	9HR	10.0 to 15.9	0.55 approx. at 12.6 v	Tetrode Unit as Class A Amplifier
12DM4	Half-Wave Rectifier	F15	4CG	12.6⊖	0.6	Television Damper Service
12DQ6-A	Beam Power Tube	F22	6AM	12.6⊖	0.6	Horizontal Deflection Amplifier
12DQ6-B	Beam Power Tube	F22	6AM	12.6⊖	0.6	Horizontal Deflection Amplifier
12DQ7	Power Pentode	B4	9BF	6.3⊖ 12.6	0.6 0.3	Class A Amplifier
12DS7 12DS7-A	Twin Diode—Power Tetrode⊙	B4	9JU	10.0 to 15.9	0.4 approx. at 12.6 v	Tetrode Unit as Class A Amplifier Diode Units
12DT5	Beam Power Tube	B4	9HN	12.6⊖	0.6	Vertical Deflection Amplifier
12DT8	High-Mu Twin Triode	B2	9DE	12.6	0.15	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
12DU7	Twin Diode—Power Tetrode⊙	B2	9JX	10.0 to 15.9	0.25 approx. at 12.6V	Tetrode Unit as Class A Amplifier
12DV8	Twin Diode—Power Tetrode⊙	B4	9HR	10.0 to 15.9	0.375 approx. at 12.6 v	Class A Amplifier
12DW7	Dual Triode	B2	9A	12.6 6.3	0.15 0.3	Unit No. 1 as Class A Amplifier Unit No. 2 as Class A Amplifier
12DW8	Diode Dual-Triode	B2	9JC	12.6	0.45	Detector
12DY8	Medium-Mu Triode—Remote-Cutoff Tetrode⊙	B2	9JD	10.0 to 15.9	0.35 approx. at 12.6V	Triode Unit as Class A Amplifier Tetrode Unit as Signal Seeker Relay
12DZ6	Remote-Cutoff Pentode⊙	A2	7BK	10.0 to 15.9	0.19 approx. at 12.6 v	Class A Amplifier
12EA6	Remote-Cutoff Pentode⊙	A2	7BK	10.0 to 15.9	0.19 approx. at 12.6 v	Class A Amplifier
12EC8	Medium-Mu Triode—Semiremote-Cutoff Pentode⊙	B2	9FA	10.0 to 15.9	0.225 approx. at 12.6V	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
12ED5	Beam Power Tube	A3	7CV	12.6⊕	0.45	Class A Amplifier
12EG6	Pentagrid Amplifier⊙	A2	7CH	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12EH5	Power Pentode	A3	7CV	12.6⊕	0.6	Class A Amplifier
12EK6	Remote-Cutoff Pentode⊙	A2	7BK	10.0 to 15.9	0.19 approx. at 12.6 v	Class A Amplifier
12EL6	Twin Diode—High-Mu Triode⊙	A2	7FB	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12EM6	Diode—Power Tetrode⊙	B4	9HV	10.0 to 15.9	0.5 approx. at 12.6 v	Class A Amplifier
12EN6	Beam Power Tube	F6	7AC	12.6⊕	0.6	Vertical Deflection Amplifier
12EQ7	Diode—Remote-Cutoff Pentode	B4	9LQ	12.6	0.15	Pentode Unit as Class A Amplifier
12EZ6	Sharp-Cutoff Pentode⊙	A2	7BK	10.0 to 15.9	0.175 approx. at 12.6V	Class A Amplifier
12F5-GT	High-Mu Triode	F6	5M‡	12.6	0.15	Amplifier
12F8	Twin Diode—Remote-Cutoff Pentode⊙	B2	9FH	10.0 to 15.9	0.15 approx. at 12.6 v	Pentode Unit as Class A Amplifier
12FK6	Twin Diode—Low-Mu Triode⊙	A2	7BT	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊙ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
12FM6	Twin Diode—Medium-Mu Triode⊙	A2	7BT	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12FQ8	Twin Double-Plate High-Mu Triode	B2	9KT	12.6	0.15	Each Unit as Class A Amplifier
12FR8	Diode—Medium-Mu Triode—Remote-Cutoff Pentode⊙	B3	9KU	10.0 to 15.9	0.32 approx. at 12.6V	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
12FV7	Medium-Mu Twin Triode	B4	9A	6.3 12.6	0.9 0.45	Each Unit as Class A Amplifier
12FX8	Medium-Mu Triode—Pentagrid Converter⊙	B3	9KV	10.0 to 15.9	0.3 approx. at 12.6V	Triode Unit as Class A Amplifier Pentagrid Unit as Converter
12GA6	Pentagrid Converter⊙	A2	7CH	10.0 to 15.9	0.15 approx. at 12.6V	Converter
12GC6	Beam Power Tube	F22	8JX	12.6	0.6	Horizontal Deflection Amplifier
12GJ5	Novar Beam Power Tube	C3	9NM	12.6⊕	0.6	Horizontal Deflection Amplifier
12GT5	Beam Power Tube	C2	9NZ	12.6⊕	0.6	Horizontal Deflection Amplifier
12GW6 12GW6/ 12DQ6	Beam Power Tube	F22	8AM	12.6⊕	0.6	Horizontal Deflection Amplifier
12H6	Twin Diode	E1	7Q	12.6	0.15	Detector Rectifier
12J5-GT	Medium-Mu Triode	F7	6Q‡	12.6	0.15	Amplifier
12J7-GT	Sharp-Cutoff Pentode	F7	7R	12.6	0.15	Amplifier
12J8	Twin Diode—Power Tetrode⊙	B2	9GC	10.0 to 15.9	0.325 approx. at 12.6 v	Tetrode Unit as Class A Amplifier
12K5	Power Tetrode⊙	A3	7EK	10.0 to 15.9	0.4 approx. at 12.6 v	Class A Amplifier
12K7-GT	Remote-Cutoff Pentode	F7	7R	12.6	0.15	Amplifier
12K8	Triode-Hexode Converter	E3	8K	12.6	0.15	Oscillator Mixer
12KL8	Diode—Sharp-Cutoff Pentode	B4	9LQ	12.6⊕	0.15	Class A Amplifier
12L6-GT	Beam Power Tube	F6	7AC‡	12.6⊕	0.6	Class A Amplifier
12Q7-GT	Twin Diode—High-Mu Triode	F7	7V	12.6	0.15	Triode Unit as Amplifier
12R5	Beam Power Tube	A3	7CV	12.6⊕	0.6	Vertical Deflection Amplifier
12S8-GT	Triple Diode—High-Mu Triode	F6	8CB	12.6	0.15	Triode Unit as Class A Amplifier
12SA7 12SA7-GT	Pentagrid Converter▲	E2 F6	8R 8AD	12.6	0.15	Converter

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Diag.	B. D.	Volts	Amps.	
12SC7	High-Mu Twin Triode	E2	8S	12.6	0.15	Each Unit as Class A Amplifier
12SF5 12SF5-GT	High-Mu Triode	E2 F6	8AB 8AB‡	12.6	0.15	Class A Amplifier
12SF7	Diode—Remote-Cutoff Pentode	E2	7AZ	12.6	0.15	Pentode Unit as Amplifier
12SG7	Semiremote-Cutoff Pentode	E2	8BK	12.6	0.15	Class A Amplifier
12SH7	Remote-Cutoff Pentode	E2	8BK	12.6	0.15	Class A Amplifier
12SJ7 12SJ7-GT	Sharp-Cutoff Pentode	E2 F7	8N 8N✕	12.6	0.15	Class A Amplifier
12SK7 **12SK7-GT**	Remote-Cutoff Pentode	E2 F7	8N 8N✕	12.6	0.15	Class A Amplifier
12SL7-GT	High-Mu Twin Triode	F8	8BD	12.6	0.15	Each Unit as Class A Amplifier
12SN7-GT	Medium-Mu Twin Triode	F8	9BD	12.6	0.3	Each Unit as Class A Amplifier
12SN7-GTA	Medium-Mu Twin Triode	F8	8BD	12.6	0.3	Class A Amplifier Vertical Defl. Amp.
12SQ7 **12SQ7-GT**	Twin Diode—High-Mu Triode	E2 F7	8Q 8Q✕	12.6	0.15	Triode Unit as Class A Amplifier
12SR7 12SR7-GT	Twin Diode—Medium-Mu Triode	E2 F6	8Q 8Q✕	12.6	0.15	Triode Unit as Class A Amplifier
12U7	Medium-Mu Twin Triode	B2	7CK	10.0 to 15.9	0.15 approx. at 12.6 v	Each Unit as Class A Amplifier
12V6-GT	Beam Power Tube . .	F6	7AC‡	12.6	0.225	Amplifier
12W6-GT	Beam Power Tube	F8	7AC‡	12.6⊕	0.6	Vertical Deflection Amplifier
12X4	Full-Wave Rectifier	A3	5BS	12.6	0.3	Rectifier
12Z3	Half-Wave Rectifier	K4	4G	12.6	0.3	With Capacitive-Input Filter
13DE7	Dual Triode	B4	9HF	13.0⊕	0.45	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
13DR7	Dual Triode	B4	9HF	13.0⊕	0.45	Vert. Deflect. Osc. Vert. Deflect. Amp.
13EM7	Dual Triode	F3	8BD	13.0⊕	0.45	Vert. Deflect. Osc. Vert. Deflect. Amp.
13FD7	Dual Triode	H1	9HF	13.0⊕	0.45	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
13GF7	Dual Triode	C7	9QD	13⊕	0.45	Vertical Deflection Oscillator Vertical Deflection Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
14A4	Medium-Mu Triode	J2	5AC	12.6	0.15	Class A Amplifier
14A5	Beam Power Tube	J2	6AA	12.6	0.15	Class A Amplifier
14A7	Remote-Cutoff Pentode	J2	8V	12.6	0.15	Class A Amplifier
14AF7	Medium-Mu Twin-Triode	J2	8AC	12.6	0.15	Each Unit as Class A Amplifier
14B6	Twin Diode—High-Mu Triode	J2	8W	12.6	0.15	Triode Unit as Class A Amplifier
14B8	Pentagrid Converter ◘	J2	8X	12.6	0.15	Converter
14C5	Beam Power Tube	J3	6AA	12.6	0.225	Class A Amplifier
14C7	Sharp-Cutoff Pentode	J2	8V	12.6	0.15	Class A Amplifier
14E6	Twin Diode—Medium-Mu Triode	J2	8W	12.6	0.15	Triode Unit as Class A Amplifier
14E7	Twin Diode—Remote-Cutoff Pentode	J2	8AE	12.6	0.15	Pentode Unit as Class A Amplifier
14F7	High-Mu Twin Triode	J2	8AC	12.6	0.15	Each Unit as Class A Amplifier
14F8	Medium-Mu Twin Triode	J2	8BW	12.6	0.15	Each Unit as Class A Amplifier
14GT8	Twin Diode—High-Mu Triode	B2	9KR	14.0	0.15	Triode Unit as Class A Amplifier
14H7	Semiremote-Cutoff Pentode	J2	8V	12.6	0.15	Class A Amplifier
14J7	Triode-Heptode Converter	J2	8BL	12.6	0.15	Converter
14N7	Medium-Mu Twin Triode	J3	8AC	12.6	0.3	Each Unit as Class A Amplifier
14Q7	Pentagrid Converter▲	J2	8AL	12.6	0.15	Converter
14R7	Twin Diode—Remote-Cutoff Pentode	J2	8AE	12.6	0.15	Pentode Unit as Class A Amplifier
15	Sharp-Cutoff Pentode	K5	5F	2.0	0.22	Class A Amplifier
15HB6	Power Pentode	B10	9PU	14.7⊕	0.3	Class A Amplifier
17AV5-GA	Beam Power Tube	F19	6CK	16.8⊕	0.45	Horizontal Deflection Amplifier
17AX4-GT	Half-Wave Rectifier	F6	4CG	16.8⊕	0.45	Television Damper Service
17AX4-GTA	Half-Wave Rectifier	F6	4CG	16.8⊕	0.45	Television Damper Service
17AY3	Novar Half-Wave Rectifier	C4	9HP	16.8⊕	0.45	Television Damper Service
17BH3	Novar Half-Wave Rectifier	C4	9HP	17.0⊕	0.6	Television Damper Service
17BQ6-GTB	Beam Power Tube	F16	8AM	16.8⊕	0.45	Horizontal Deflection Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
17C5	Beam Power Tube	A3	7CV	16.8⊕	0.45	Class A Amplifier
17C9	Sharp-Cutoff Twin Tetrode	G1	10F	16.8	0.15	Each Unit as Class A Amplifier
17D4	Half-Wave Rectifier	F8	4CG	16.8⊕	0.45	Television Damper Service
17DE4	Half-Wave Rectifier	F15	4CG	17.0⊕	0.6	Television Damper Service
17DM4	Half-Wave Rectifier	F15	4CG	16.8⊕	0.45	Television Damper Service
17DQ6-A	Beam Power Tube	F22	6AM	16.8⊕	0.45	Horizontal Deflection Amplifier
17DQ6-B	Beam Power Tube	F22	6AM	16.8⊕	0.45	Horizontal Deflection Amplifier
17GJ5	Novar-Beam Power Tube	C3	9NM	16.8⊕	0.45	Horizontal Deflection Amplifier
17GT5	Beam Power Tube	C2	9NZ	16.8⊕	0.45	Horizontal Deflection Amplifier
17GW6 17GW6/ 17DQ6	Beam Power Tube	F22	6AM	16.8⊕	0.45	Horizontal Deflection Amplifier
17H3	Half-Wave Rectifier	B4	9FK	17.5⊕	0.3	Television Damper Service
18A5	Beam Power Tube	F9	6CK	18.5⊕	0.3	Horizontal Deflection Amplifier
18FW6	Remote-Cutoff Pentode	A2	7CC	18.0	0.1	Class A Amplifier
18FW6-A		A2	7CC	18.0⊕	0.1	
18FX6	Pentagrid Converter▲	A2	7CH	18.0	0.1	Converter
18FX6-A		A2	7CH	18.0⊕	0.1	
18FY6	Twin Diode— High-Mu Triode	A2	7BT	18.0	0.1	Triode Unit as Class A Amplifier
18FY6-A		A2	7BT	18.0⊕	0.1	
18GD6-A	Sharp-Cutoff Pentode	A2	7BK	18.0⊕	0.1	Class A Amplifier
19	High-Mu Twin Power Triode	K4	8C	2.0F	0.26	Amplifier
19AU4	Half-Wave Rectifier	F15	4CG	18.9⊕	0.6	Television Damper Service
19AU4-GTA	Half-Wave Rectifier	F15	4CG	18.9⊕	0.6	Television Damper Service
19BG6-G **19BG6-GA**	Beam Power Tube	F40 F33	5BT	18.9	0.3	Horizontal Deflection Amplifier
19CL8-A	Medium-Mu Triode— Sharp-Cutoff Tetrode	F1	9FX	18.9⊕	0.15	Triode Unit as Class A Amplifier
						Tetrode Unit as Class A Amplifier
19EA8-A	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9AE	18.9⊕	0.15	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
19HR6	Semiremote-Cutoff Pentode	A2	7BK	18.9⊕	0.15	Class A Amplifier
19HS6	Sharp-Cutoff Pentode	A2	7BK	18.9⊕	0.15	Class A Amplifier
19J6	Medium-Mu Twin Triode	A2	7BF	18.9	0.15	Each Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
19T8	Triple Diode—High-Mu Triode	B2	9E	18.9	0.15	Triode Unit as Class A Amplifier
19X8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AK	18.9	0.15	Converter
20	Power Triode	F18	4D	3.3F	0.132	Class A Amplifier
20EQ7	Diode—Remote-Cutoff Pentode	B4	9LQ	20.0	0.1	Pentode Unit as Class A Amplifier
20EZ7	High-Mu Twin Triode	B2	9PG	20.0	0.1	Each Unit as Class A Amplifier
21EX6	Beam Power Tube	F33	5BT	21.5⊕	0.6	Horizontal Deflection Amplifier
22	Sharp-Cutoff Tetrode	K10	4K	3.3F	0.132	Screen-Grid RF Amplifier
22BH3	Novar Half-Wave Rectifier	C4	9HP	22.4⊕	0.45	Television Damper Service
22DE4	Half-Wave Rectifier	F15	4CG	22.4⊕	0.45	Television Damper Service
24-A	Sharp-Cutoff Tetrode	K10	5E	2.5	1.75	Screen-Grid RF Amplifier
25A6 25A6-GT	Power Pentode	E4 F8	7S 7S‡	25.0	0.3	Class A Amplifier
25A7-GT	Rectifier—Power Pentode	F8	8F	25.0	0.3	Pentode Unit as Class A Amplifier Half-Wave Rectifier
25AC5-GT	High-Mu Power Triode	F8	6Q‡	25.0	0.3	Amplifier
25AV5-GA	Beam Power Tube	F19	6CK	25.0	0.3	Horizontal Deflection Amplifier
25AX4-GT	Half-Wave Rectifier	F8	4CG	25	0.3	Television Damper Service
25B5	Direct-Coupled Power Amplifier	K8	6D	25.0	0.3	Amplifier
25B6-G	Power Pentode	F28	7S‡	25.0	0.3	Class A Amplifier
25B8-GT	High-Mu Triode—Remote-Cutoff Pentode	F8	8T	25.0	0.15	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
25BK5	Beam Power Tube	B4	9BQ	25.0	0.3	Class A Amplifier
25BQ6-GT **25BQ6-GTB/25CU6**	Beam Power Tube	F18	6AM	25.0	0.3	Horizontal Deflection Amplifier
25C5	Beam Power Tube	A3	7CV	25.0	0.3	Class A Amplifier
25C6-G	Beam Power Tube	F28	7AC‡	25.0	0.3	Class A Amplifier
25CA5	Beam Power Tube	A3	7CV	25.0	0.3	Class A Amplifier
25CD6-GA **25CD6-GB**	Beam Power Tube	F40 F33	5BT 5BT	25⊕ 25⊕	0.6	Horizontal Deflection Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
25DN6	Beam Power Tube	F33	5BT	25.0⊕	0.6	Horizontal Deflection Amplifier
25EC6	Beam Power Tube	F29	5BT	25.0⊕	0.6	Horizontal Deflection Amplifier
25EH5	Power Pentode	A3	7CV	25.0	0.3	Class A Amplifier
25F5	Beam Power Tube	A3	7CV	25.0	0.15	Class A Amplifier
25F5A	Beam Power Tube	A3	7CV	25⊕	0.15	Class A Amplifier Push-Pull Class A Amplifier
25L6	Beam Power Tube	E4	7AC	25.0	0.3	Amplifier
25L6-GT	Beam Power Tube	F8	7AC‡	25.0	0.3	Amplifier
25N6-G	Direct-Coupled Power Amplifier	K5	7W	25.0	0.3	Class A Amplifier
25W4-GT	Half-Wave Rectifier	F8	4CG	25.0	0.3	Television Damper Service
25Y5	Rectifier-Doubler	K4	6E	25.0	0.3	Half-Wave Rectifier
25Z5	Rectifier-Doubler	K4	6E	25.0	0.3	Rectifier-Doubler
25Z6	Rectifier-Doubler	E4	7Q	25.0	0.3	Voltage Doubler
25Z6-GT		F8	7Q‡	25.0	0.3	Half-Wave Rectifier
26	Medium-Mu Triode	K8	4D	1.5F	1.05	Class A Amplifier
27	Low-Mu Triode	K4	5A	2.5	1.75	Class A Amplifier
30	Medium-Mu Triode	K4	4D	2.0F	0.06	Amplifier
31	Power Triode	K4	4D	2.0F	0.13	Class A Amplifier
32	Sharp-Cutoff Tetrode	K10	4K	2.0F	0.06	Class A Amplifier
32ET5	Power Pentode	A3	7CV	32.0	0.1	Class A Amplifier
32L7-GT	Rectifier—Beam Power Tube	F7	8Z	32.5	0.3	Class A Amplifier Half-Wave Rectifier
33	Power Pentode	K8	5K	2.5F	0.26	Class A Amplifier
34	Remote-Cutoff Pentode	K10	4M	2.0F	0.06	Screen-Grid RF Amplifier
34GD5	Beam Power Tube	A3	7CV	34.0	0.1	Class A Amplifier
34GD5-A		A3	7CV	34.0⊕	0.1	
35	Remote-Cutoff Tetrode	K10	5E	2.5	1.75	Screen-Grid RF Amplifier
35A5	Beam Power Tube	J3	6AA	35.0	0.15	Single-Tube Class A Amplifier
35B5	Beam Power Tube	A3	7BZ	35.0	0.15	Class A Amplifier
35C5	Beam Power Tube	A3	7CV	35.0	0.15	Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
35DZ8	High-Mu Triode—Power Pentode	B10	9JE	35.0	0.15	Triode Unit as Class A Amplifier / Pentode Unit as Class A Amplifier
35EH5	Power Pentode	A3	7CV	35.0	0.15	Class A Amplifier
35GL6	Beam Power Tube	A3	7FZ	35.0	0.15	Class A Amplifier
35L6-GT	Beam Power Tube	F8	7AC‡	35.0	0.15	Single-Tube Class A Amplifier
35W4	Half-Wave Rectifier Heater Tap for Pilot	A3	5BQ	35.0 Pilot Between Pins 4 and 6	0.15	With Capacitive-Input Filter
35Y4	Half-Wave Rectifier Heater Tap for Pilot	J3	5AL	35.0 Pilot Between Pins 1 and 4	0.15	With Capacitive-Input Filter
35Z3	Half-Wave Rectifier	J3	4Z	35.0	0.15	With Capacitive-Input Filter
35Z4-GT	Half-Wave Rectifier	F6	5AA	35.0	0.15	With Capacitive-Input Filter
35Z5-GT	Half-Wave Rectifier Heater Tap for Pilot	F6	6AD	35.0 Pilot Between Pins 2 and 3	0.15	With Capacitive-Input Filter
36	Sharp-Cutoff Tetrode	K5	5E	6.3	0.3	Screen-Grid RF Amplifier
36AM3	Half-Wave Rectifier	B1	5BQ	36.0	0.1	With Capacitive-Input Filter
36AM3-A 36AM3-B	Half-Wave Rectifier	A3 A3	5BQ 5BQ	36.0 36.0⊕	0.1 0.1	With Capacitive-Input Filter
37	Medium-Mu Triode	K4	5A	6.3	0.3	Class A Amplifier
38	Power Pentode	K5	5F	6.3	0.3	Class A Amplifier
39/44	Remote-Cutoff Pentode	K5	5F	6.3	0.3	Class A Amplifier
40	Medium-Mu Triode	K8	4D	5.0F	0.25	Class A Amplifier
41	Power Pentode	K4	6B	6.3	0.4	Amplifier
42	Power Pentode	K8	6B	6.3	0.7	Amplifier
43	Power Pentode	K8	6B	25.0	0.3	Amplifier
45	Power Triode	K8	4D	2.5F	1.5	Class A Amplifier
45Z3	Half-Wave Rectifier	A2	5AM	45.0	0.075	Half-Wave Rectifier
45Z5-GT	Half-Wave Rectifier Heater Tap for Pilot	F8	6AD	45.0 Pilot Between Pins 2 and 3	0.15	With Capacitive-Input Filter
46	Dual-Grid Power Amplifier	K11	5C	2.5F	1.75	Class A Amplifier □
47	Power Pentode	K11	5B	2.5F	1.75	Class A Amplifier
48	Power Tetrode	K11	6A	30.0	0.4	Class A Amplifier
49	Dual-Grid Power Amplifier	K8	5C	2.0F	0.12	Class A Amplifier □
50	Power Triode	K12	4D	7.5F	1.25	Class A Amplifier
50A5	Beam Power Tube	J3	6AA	50.0	0.15	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊖Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
50B5	Beam Power Tube	A3	7BZ	50.0	0.15	Class A Amplifier
50C5	Beam Power Tube	A3	7CV	50.0	0.15	Class A Amplifier
50C6-G	Beam Power Tube	F28	7AC	50.0	0.15	Single-Tube Class A Amplifier
50DC4	Half-Wave Rectifier Heater Tap for Pilot	A3	5BQ	50.0 Pilot Lamp Between Pins 4 and 6	0.15	With Capacitive Input Filter
50EH5	Power Pentode	A3	7CV	50.0	0.15	Class A Amplifier
50FE5	Beam Power Tube	A3	8KB	50.0	0.15	Class A Amplifier
50FK5	Power Pentode	A3	7CV	50.0	0.1	Class A Amplifier
50L6-GT	Beam Power Tube	F6	7AC‡	50.0	0.15	Single-Tube Class A Amplifier
50X6	Rectifier-Doubler	J3	7DX	50.0	0.15	Rectifier-Doubler
50Y6-GT	Rectifier-Doubler	F6	7Q‡	50.0	0.15	Rectifier-Doubler
50Y7-GT	Rectifier-Doubler Heater Tap for Pilot	F6	8AN	50.0 Pilot Lamp Between Pins 6 and 7	0.15	Voltage Doubler Half-Wave Rectifier
50Z7-G	Rectifier-Doubler Heater Tap for Pilot	F21	8AN	50.0 Pilot Lamp Between Pins 6 and 7	0.15	Voltage Doubler Half-Wave Rect.
53	High-Mu Twin Power Triode	K8	7B	2.5	2.0	Amplifier
55	Twin Diode—Low-Mu Triode	K5	6G	2.5	1.0	Triode Unit as Amplifier
56	Medium-Mu Triode★	K4	5A	2.5	1.0	Amplifier Detector
57	Sharp-Cutoff Pentode	K9	6F	2.5	1.0	Amplifier Detector
58	Remote-Cutoff Pentode	K9	6F	2.5	1.0	Amplifier Mixer
59	Triple-Grid Power Amplifier	K11	7A	2.5	2.0	Class A Amplifier¶
60FX5	Power Pentode	A3	7CV	60.0	0.1	Class A Amplifier
70L7-GT	Rectifier-Beam Power Tube	F9	8AA	70.0	0.15	Amplifier Unit as Class A Amplifier Half-Wave Rectifier
71-A	Power Triode	K8	4D	5.0F	0.25	Class A Amplifier
75	Twin Diode—High-Mu Triode	K5	6G	6.3	0.3	Amplifier
76	Medium-Mu Triode	K4	5A	6.3	0.3	Class A Amplifier
77	Sharp-Cutoff Pentode	K5	6F	6.3	0.3	Class A Amplifier
78	Remote-Cutoff Pentode	K5	6F	6.3	0.3	Amplifier Mixer
79	High-Mu Twin Power Triode	K5	6H	6.3	0.6	Class B Amplifier
80	Full-Wave Rectifier	K8	4C	5.0F	2.0	With Capacitive-Input Filter With Inductive-Input Filter

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
81	Half-Wave Rectifier	K12	4B	7.5F	1.25	With Capacitive-Input Filter
82	Full-Wave Rectifier	K8	4C	2.5F	3.0	With Capacitive-Input Filter
83-v	Full-Wave Rectifier	K8	4AD	5.0	2.0	
84/6Z4	Full-Wave Rectifier	K4	5D	6.3	0.5	With Capacitive-Input Filter With Inductive-Input Filter
85	Twin Diode—Low-Mu Triode	K5	6G	6.3	0.3	Triode Unit as Class A Amplifier
89	Tripie-Grid Power Amplifier	K4	6F	6.3	0.4	Class A Amplifier¶
117L7-GT/ 117M7-GT	Rectifier-Beam Power Tube	F9	8AO	117	0.09	Amplifier Unit as Class A Amplifier Half-Wave Rectifier
117N7-GT	Rectifier-Beam Power Tube	F9	8AV	117	0.09	Amplifier Unit as Class A Amplifier Half-Wave Rectifier
117P7-GT	Rectifier-Beam Power Tube	F9	8AV	117	0.09	
117Z3	Half-Wave Rectifier	A3	4CB	117	0.04	With Capacitive-Input Filter
117Z4-GT	Half-Wave Rectifier	F42	5AA	117	0.04	With Capacitive-Input Filter
117Z6-GT	Rectifier-Doubler	F6	7Q‡	117	0.075	Voltage Doubler Half-Wave Rectifier
5879	Sharp-Cutoff Pentode	B2	9AD	6.3	0.15	Class A Amplifier
5881	Beam Power Tube	F10	7AC	6.3	0.9	Single Tube Class A Amplifier Push-Pull Class A Amplifier Push-Pull Class AB_1 Amplifier
6973	Beam Power Tube	B4	9EU	6.3	0.45	Push-Pull Class AB_1 Amplifier Push-Pull ⧈ Class AB_1 Amplifier
7025	High-Mu Twin-Triode	B2	9A	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
7027	Beam Power Tube	F26	8HY	6.3	0.9	Push-Pull Class AB_1 Amplifier Push-Pull Class AB_1 Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
7027-A	Beam Power Tube	F26	8HY	6.3	0.9	Push-Pull Class AB_1 Amplifier
						Push-Pull Class AB_1 Amplifier
7189	Power Pentode	B10	9BL	6.3	0.76	Push-Pull Class AB_1 Amplifier
7199	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9JT	6.3	0.45	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
7247	Dual Triode	B2	9A	12.6	0.15	Unit No. 1 as Class A Amplifier
				6.3	0.3	Unit No. 2 as Class A Amplifier
7408	Beam Power Tube	F6	7AC	6.3	0.45	Class A Amplifier
7543	Sharp-Cutoff Pentode	A2	7BK	6.3	0.3	Class A Amplifier
7591	Beam Power Tube	F6	8KQ	6.3	0.8	Class A Amplifier
						Push-Pull Class AB_1 Amplifier
7695	Beam Power Tube	H2	9MQ	50	0.15	Class A Amplifier
						Push-Pull Class AB_1 Amplifier
7868	Novar Power Pentode	C1	9NZ	6.3	0.8	Class A Amplifier
EM84/ 6FG6	Electron-Ray Tube	B8	9GA	6.3	0.27	Visual Indicator

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

EXPLANATION OF FOOTNOTES

Types with octal bases have *Miniature Cap*; all others have *Small Cap*.

○ For use in automobile receivers which operate directly from 12-volt storage batteries.

▲ Grids # 2 and # 4 are screen. Grid # 3 is signal-input control grid.

▫ Grids # 3 and # 5 are screen. Grid # 4 is signal-input control grid.

□ Grid # 2 tied to plate.

▪▪ Grid # 1 is control grid. Grid # 2 is screen. Grid # 3 tied to cathode.

¶ Grid # 1 is control grid. Grids # 2 and # 3 tied to plate.

▲ Grids # 2 and # 4 are screen. Grid # 1 is signal-input control grid.

♦ Grids # 1 and # 2 tied together.

‡ This diagram is like the one having the same designation except that Pin No. 1 has no connection.

⅋ This diagram is like the one having the same designation except that base sleeve is connected to Pin No. 1.

+ Each unit.

AA Both grids connected together; likewise both cathodes.

° Both grids connected together; likewise, both plates.

★ For Grid-leak Detection—plate volts, 45; grid return to + filament or to cathode.

√ With separate excitation and triode unit grounded.

➤ Mercury-Vapor Type.

@ Superseded by 10-Y. See Power and Gas Tubes Booklet PG-101D.

@ Grid-No. 2 of each tube connected to tap on plate winding of output transformer. This arrangement permits approximately 40% to 50% of the plate signal voltage to be applied to Grid-No. 2 of each output tube.

‡‡ This diagram is like the one having the same designation except that Pin No. 1 is connected to internal shield.

•• 6AW8-A Features a plate current characteristic with a controlled knee.

NOTE 1: Subscript 1 on class of amplifier service (as AB_1) indicates that grid current does not flow during any part of input service.

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length	x	Diameter	Description
A1	1-3/4"	x	3/4"	7-Pin Miniature Types
A2	2-1/8"	x	3/4"	
A3	2-5/8"	x	3/4"	
B1	1-3/4"	x	7/8"	9-Pin Miniature Types
B2	2-3/16"	x	7/8"	
B3	2-7/16"	x	7/8"	
B4	2-5/8"	x	7/8"	
B5	2-11/16"	x	7/8"	
B6	2-3/4"	x	7/8"	
B7	2-13/32"	x	7/8"	
B8	2-27/32"	x	7/8"	
B9	2-7/8"	x	7/8"	
B10	3-1/16"	x	7/8"	
B11	3-9/32"	x	7/8"	
B12	3-1/2"	x	7/8"	
B13	2-13/16"	x	7/8"	
C1	3.24"	x	1.188"	Novar Types
C2	3.54"	x	1.562"	
C3	3.55"	x	1.562"	
C4	3.84"	x	1.188"	
C5	4.14"	x	1.562"	
C6	3.08"	x	1.188"	
C7	3.00"	x	1.188"	
D1	0.800"	x	0.440"	Nuvistor Type
E1	1-3/4"	x	1-5/16"	Octal-Metal Types
E2	2-5/8"	x	1-5/16"	
E3	3-1/8"	x	1-5/16"	
E4	3-1/4"	x	1-5/16"	
E5	4-5/16"	x	1-5/8"	
F1	2-5/16"	x	1-5/16"	Octal-Glass Types
F2	2-5/8"	x	1-1/16"	
F3	2-7/8"	x	1-9/32"	
F4	3"	x	1-9/32"	
F5	3-1/16"	x	1-9/32"	
F6	3-5/16"	x	1-9/32"	
F7	3-5/16"	x	1-5/16"	
F8	3-3/8"	x	1-9/32"	
F9	3-7/16"	x	1-9/32"	
F10	3-15/32"	x	1-7/16"	
F11	3.562"	x	1.562"	
F12	3-9/16"	x	1-9/32"	
F13	3-9/16"	x	1-5/16"	
F14	3-5/8"	x	1-9/32"	
F15	3-13/16"	x	1-9/32"	
F16	3-7/8"	x	1-9/32"	
F17	3-7/8"	x	1-9/16"	

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length	x	Diameter	Description
F18	4″	x	1-3/16″	
F19	4″	x	1-9/16″	
F20	4-1/16″	x	1-9/32″	
F21	4-1/8″	x	1-9/16″	
F22	4-1/4″	x	1-9/16″	
F23	4-5/16″	x	1-5/8″	
F24	4-15/32″	x	1-9/16″	
F25	4-5/8″	x	1-9/16″	
F26	4-5/8″	x	1-5/8″	
F27	4-5/8″	x	1-23/32″	
F28	4-5/8″	x	1-13/16″	
F29	4-3/4″	x	1-9/16″	
F30	4-3/4″	x	1-11/16″	Octal-Glass Types
F31	4-3/4″	x	1-23/32″	
F32	4-7/8″	x	1-9/16″	
F33	5″	x	1-9/16″	
F34	5″	x	1-23/32″	
F35	5-1/8″	x	1-23/32″	
F36	5-1/8″	x	2-1/16″	
F37	5-3/16″	x	1-1/2″	
F38	5-7/32″	x	1-23/32″	
F39	5-5/16″	x	2-1/16″	
F40	5-11/16″	x	2-1/16″	
F41	2-7/8″	x	1-5/16″	
G1	2.190″	x	0.875″	10-Pin Miniature Type
H1	2.90″	x	1.188″	9-Pin T9-Bulb Types
H2	3.23″	x	1.188″	
J1	2-9/32″	x	1-3/16″	
J2	2-25/32″	x	1-3/16″	Lock-In Types
J3	3-5/32″	x	1-3/16″	
K1	1-3/4″	x	0.400″	
K2	4-1/8″	x	1-3/16″	
K3	4-3/16″	x	1-3/16″	
K4	4-3/16″	x	1-9/16″	
K5	4-17/32″	x	1-9/16″	
K6	4-19/32″	x	1-9/16″	Other Types
K7	4-11/16″	x	1-7/16″	
K8	4-11/16″	x	1-13/16″	
K9	4-15/16″	x	1-9/16″	
K10	5-1/32″	x	1-13/16″	
K11	5-3/8″	x	2-1/16″	
K12	6-1/4″	x	2-7/16″	
L1	1.875″	x	1.188″	12-Pin T9-Bulb Type
L2	2.596″	x	1.188″	

LEGEND FOR BASE AND ENVELOPE CONNECTION DIAGRAMS

Bottom Views

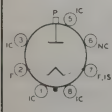
Subscripts B, D, HP, HX, P, T, and TR indicate, respectively beam unit, diode unit heptode unit, hexode unit, pentode unit, triode unit, and tetrode unit in multi-unit types.

BC – Base Sleeve
BS – Base Shell
DJ – Deflecting Electrode
ES – External Shield
F – Filament
F_M – Filament Mid-Tap
FT – Fluorescent Target

G – Grid
H – Heater
H_L – Heater Tap for Panel Lamp
H_M – Heater Mid-Tap
HS – Heater Shield

IC – Internal Connection–Do Not Use
IS – Internal Shield
K – Cathode
NC – No Connection
P – Plate (Anode)

RC – Ray-Control Electrode
S – Shell
TA – Target
U – Unit
● – Gas-Type Tube



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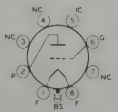

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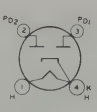

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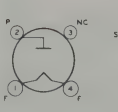

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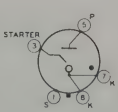

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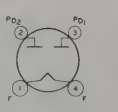

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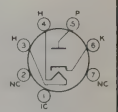

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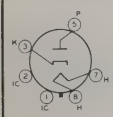

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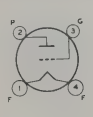

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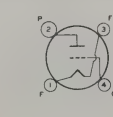

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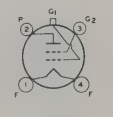

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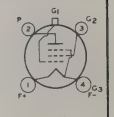

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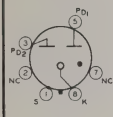

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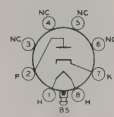

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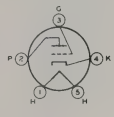

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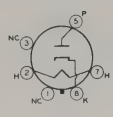

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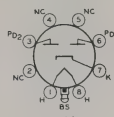

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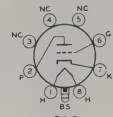

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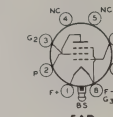

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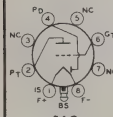

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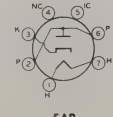

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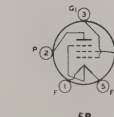

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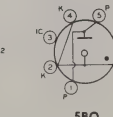

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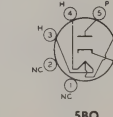

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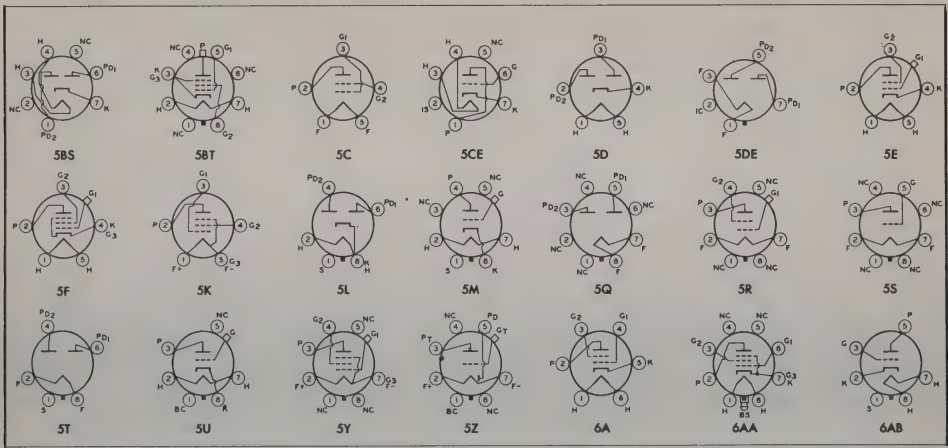
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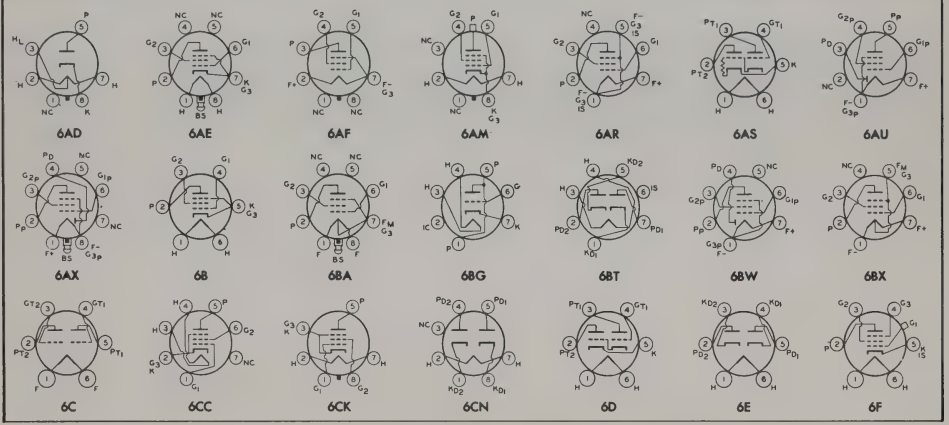
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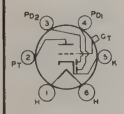

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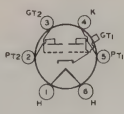

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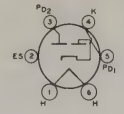

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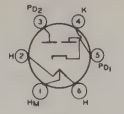

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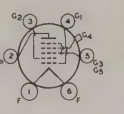

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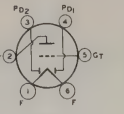

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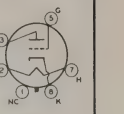

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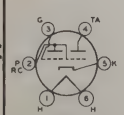

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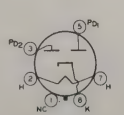

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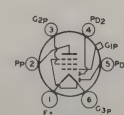

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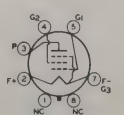

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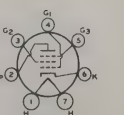

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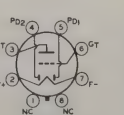

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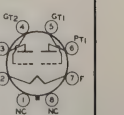

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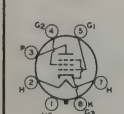

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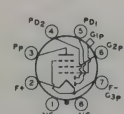

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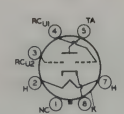

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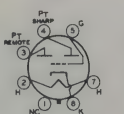

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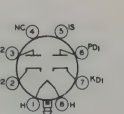

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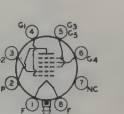

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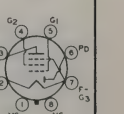

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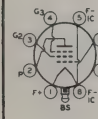

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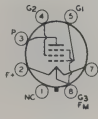

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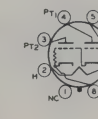

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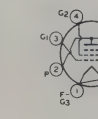

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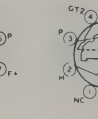

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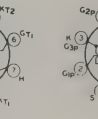

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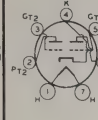

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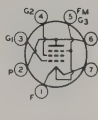

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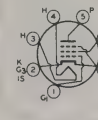

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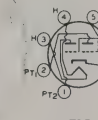

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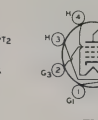

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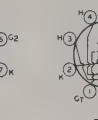

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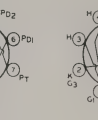

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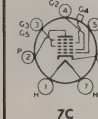

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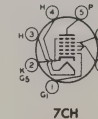

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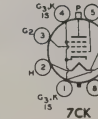

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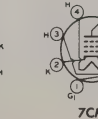

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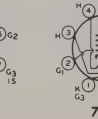

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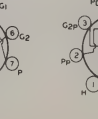

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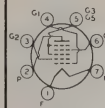

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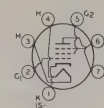

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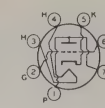

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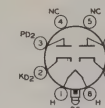

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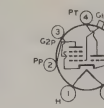

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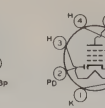

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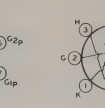

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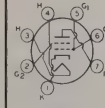

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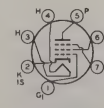

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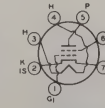

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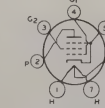

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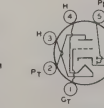

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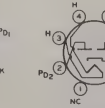

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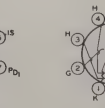

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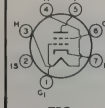

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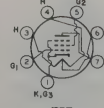

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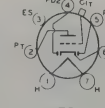

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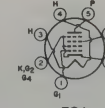

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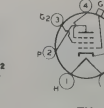

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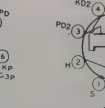

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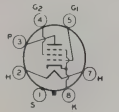

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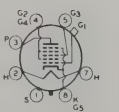

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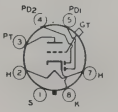

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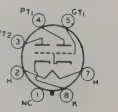

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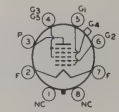

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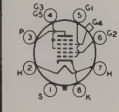

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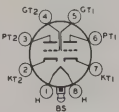

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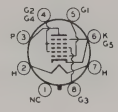

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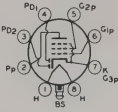

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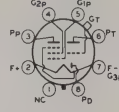

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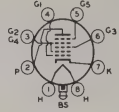

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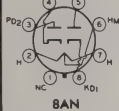

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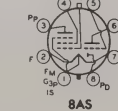

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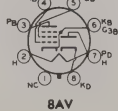

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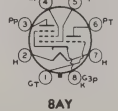

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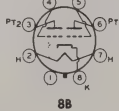

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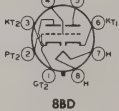

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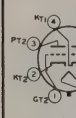

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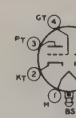

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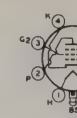

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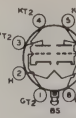

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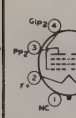

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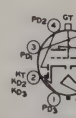

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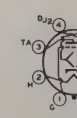

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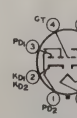

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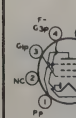

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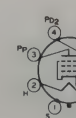

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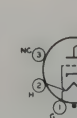

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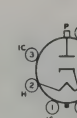

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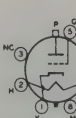

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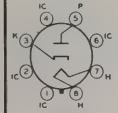

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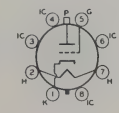

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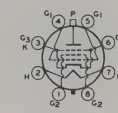

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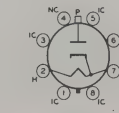

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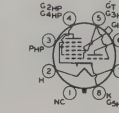

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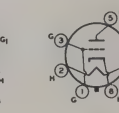

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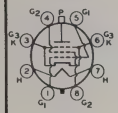

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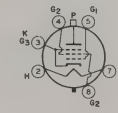

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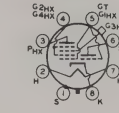

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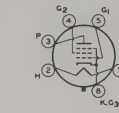

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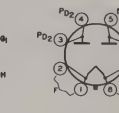

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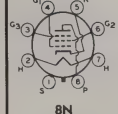

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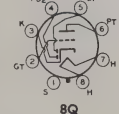

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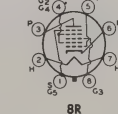

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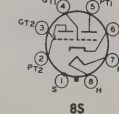

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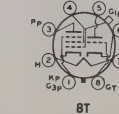

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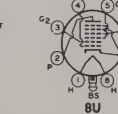

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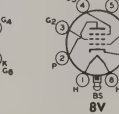

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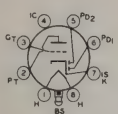

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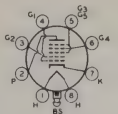

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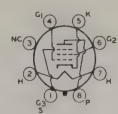

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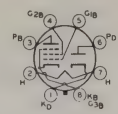

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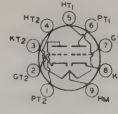

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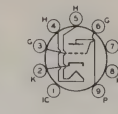

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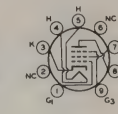

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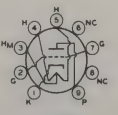

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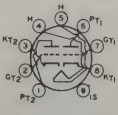

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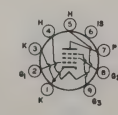

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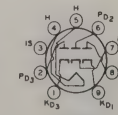

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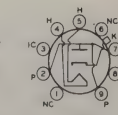

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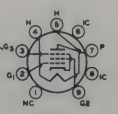

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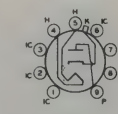

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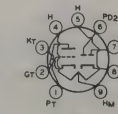

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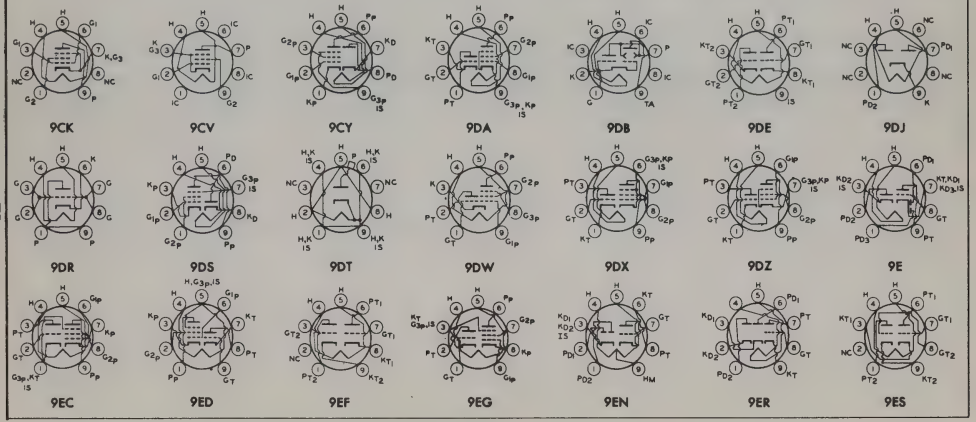
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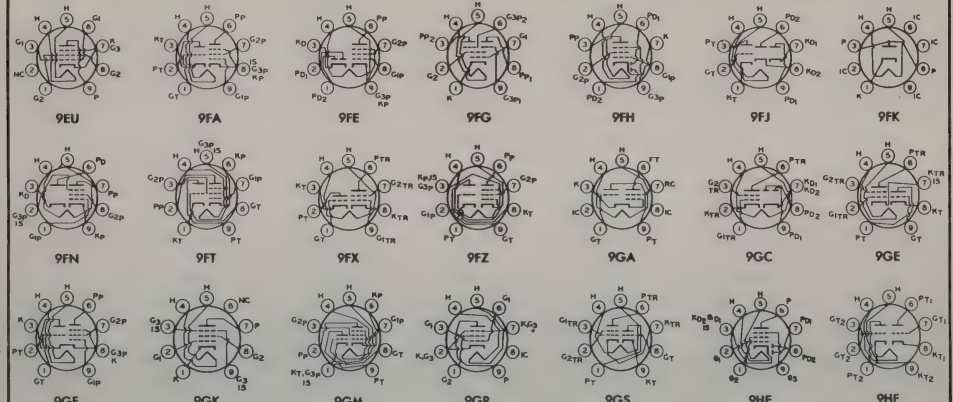
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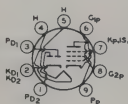

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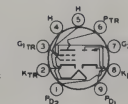

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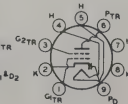

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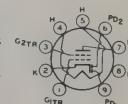

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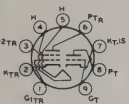

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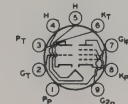

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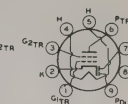

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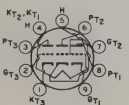
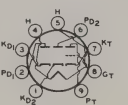


9KA

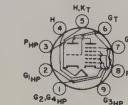
9KP



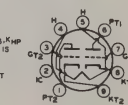
9KR

9KT

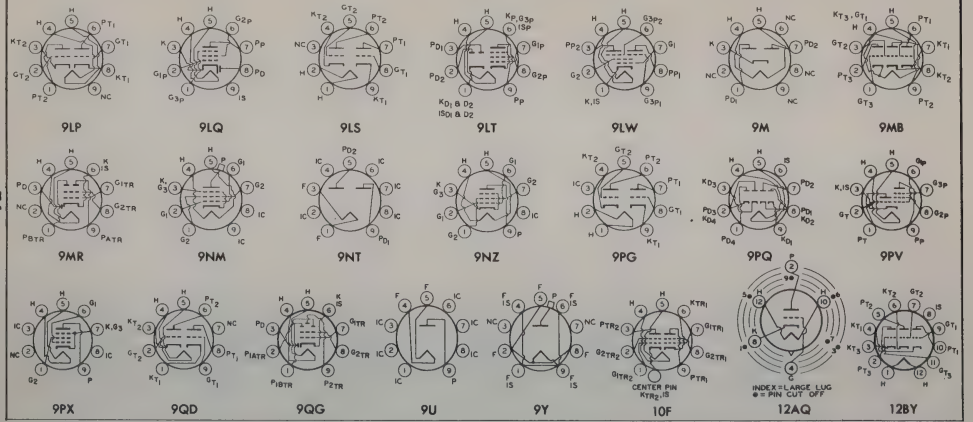
9KU



9KV



9LG


9LP
9LQ
9LS
9LT
9LW
9M
9MB
9MR
9NM
9NT
9NZ
9PG
9PQ
9PV
9PX
9QD
9QG
9U
9Y
10F
12AQ
12BY
INDEX = LARGE LUG
● = PIN CUT OFF

RCA INTERCHANGEABILITY DIRECTORY OF FOREIGN VS. U.S.A. RECEIVING-TYPE ELECTRON TUBES

This Interchangeability Directory of Foreign-vs.-U.S.A. Receiving-Type Electron Tubes has been prepared to assist distributors, dealers, technicians, and individual users in selecting the proper RCA tube type as a replacement for a foreign tube type. This chart covers approximately 800 foreign tube types, used principally in entertainment equipment such as AM and FM radios, television receivers, and audio amplifiers.

Types shown in bold face are in RCA's current line of tubes. Types shown in light face are primarily of foreign manufacture. Some of these types may be available in the United States of America. For information on the availability of the types listed in this directory, consult your RCA Tube Distributor.

***DIRECT REPLACEMENT TYPES**—RCA types shown in this column are direct replacements for corresponding types to be replaced.

****SIMILAR REPLACEMENT TYPES**—RCA types shown in this column are not direct replacements for the corresponding types to be replaced because of mechanical and/or electrical differences. For more information as to the degree of similarity, refer to tube data.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
1AB6		
1AC6		
1AH5		1S5
1AJ4		1T4
1AM4		1T4
1AN5		
1AQ5		1R5
1AR5		1S5
1AS5		1U5
1C1	1R5	
1C2		
1C3		1R5
1D13	1A3	
1E3		
1F1		1T4
1F2	1L4	
1F3	1T4	
1FD1		1S5
1FD9	1S5	
1H35		
1LA6E		1LA6
1LN5E		1LN5
1M1		
1M3		
1N3		
1N5VG		1N5GT
1P1		3V4
1P10	3S4	
1P11	3V4	
1R5SF		1R5
1R6		
1S2		
1S2A		
1S5SF		1S5
1T4SF		1T4
1U5SF		1U5
3A4T		3A4
3BX6		

Note: Types shown in bold face are RCA types.

*) **) For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
3BY7		
3C4		**3V4**
3EH7		
3EJ7		
3W4		**3S4**
3Y4		
3Z4		
4BN8		
4CM4		
4FS7		
5AR4		**5V4GA, 5Z4**
5CG4		
5ES8		
5MK4		
5MK9		
5RK16		
5Y3GB		**5Y3GT**
5Y4SG		**5Y3GT**
6A7E		**6A7**
6AB8		
6AD8		
6AE8		
6AG6G		**6V6, 6V6GT, 6V6GTA**
6AJ8		
6AM6		
6AN5		
6AN7		
6AQ4		
6AV4		
6B3		
6B8EG		**6B8**
6BD7A		
6BE7		
6BH5		
6BJ5		
6BK8		
6BM5		

Note: Types shown in bold face are RCA types.

*, ** For footnotes, see page 75

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
6BM8		
6BN5		
6BR5		
6BR7		5879
6BS4		6AF4, 6AF4A
6BS5		
6BS7		
6BT4		
6BV7		
6BW6		
6BW7		
6BX4		
6BX6		
6BY7		
6C12		
6C16		
6CA7		7027A
6CD7		6BQ5
6CH6		
6CJ5		
6CJ6		6CL6
6CK5		6CL6
6CK6		
6CM4		
6CM5		
6CN5		6CB5A
6CN6		6BJ6
6CQ6		
6CR4		
6CR5		
6CT7		7J7
6CU7		
6CV7		
6CW7		
6D2	6AL5	
6DA5		
6DA6		
6DC8		

Note: Types shown in bold face are RCA types.

*) **) For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
6DG7		
6DJ8		
6DL5		
6DL7		
6DR6		
6DR8		
6DS8		
6DY5		
6E8	**6A8**	
6E8G		
6EC7		
6EL7		
6ES6		
6ET6		
6F7B		**6F7**
6F7E		**6F7**
6F12		**6BH6**
6F15		
6F18		
6F19		
6F20		
6FC7		
6FD5		
6FD12		**6F7**
6FG6	**EM84/6FG6**	
6FN5		
6FX4		
6FY5		**6FQ5A**
6G8G		
6GA8		
6GM8		
6GN6		
6H8G	**6B8**	
6HG8		
6HK8		
6HU8		
6J6L		**6J6**
6J6R		**6J6**
6J8EG		6J8G

Note: Types shown in bold face are RCA types.

*\) For footnotes, see page 75.
**\)

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
6J8GA		6J8G
6L12	6AQ8	
6L13	12AX7A	
6L34		
6LD3		
6LD12		
6M1		
6M2		
6M5		6BQ5
6M6G		
6N3		
6N8		
6N8K		
6P9		
6P15	6BQ5	
6Q4		6BC4
6Q8		6A8, 6A8G, 6A8GT
6R3		6AF3
6R8		
6S2		
6S2A		
6U3		
6V4	6CA4	
6W2		
6X2		
7AN7		
7D9		
7DE7		
7DJ8		
8A8		
8BQ7A		
8CW5		
8D3		6BA6
8D4		
8D7		
8HG8		
9A8		9U8A

Note: Types shown in bold face are RCA types.

*) **) For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
9AB4		
9AK8		
9AQ8		
9BM5		
9BR8		
9BW6		
9EN7		
9GB8		
9P9		
11L6		**6L6, 6L6GB, 6L6GC**
12AC5		
12AD5		
12AH8		
12AJ7		
12AJ8		
12AU7R		**12AU7**
12AX7R		**12AX7, 12AX7A, 7025**
12B3		
12BX6		
12CR5		
12DA6		
12DT6		
12FB5		
12GN6		
12HU8		
12S7		
12X3		
13CM5		
13D2	**6SN7GTB**	
13EC7		
13GC8		
14G6		
14K7		
14L7		
14Y7		

Note: Types shown in bold face are RCA types.

*, ** For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
15A6		
15CW5		
15DQ8		
16A5		
16A8		
16AQ3		
16GK8		
17C8		
17EW8		
17N8		
17Z3		
19A3		
19AJ8		
19AQ5		
19BR5		
19CS4		
19D8		
19U3		
19U8		
19X3		
19Y3		
21A6		
21B6		
24/76		6P5G, 6P5GT
24/78		**6K7, 6K7GT**
25CR5		
25E5		
25GF6		
25U4GT		
26AQ8		
28AK8		
30A5		**35C5**
30AE3		
30C1		**9U8A**
30F5		
30L1		
30P4		**25BQ6GTB**
30P16		

Note: Types shown in bold face are RCA types.

*, ** For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
30P18		
31A3		
32A8		
35A3		
35C3		
35D5		
35FN5		
38A3		
41E		41
41M		6K6GT
42E		42
45A5		
45B5		
50BM8		
50CD6G		
50F2		
52KU		5V4GA
53KU		5V4GA
55N3		
60E3		
62DDT		
62VP		
63ME		6U5
63SPT		
63TP		
64ME		
64SPT		
65ME		
66KU		
67PT		
77E		6C6
77M		6J7, 6J7GT
80HK		
80S		5Z4
85A1	0E3	
85A2	0G3	
85A3		

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.
** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
86M		6P5, 6P5GT
88M		**6SK7**
89RS		**6B8**, 6B8G
90C1		
108C1	0B2	
150B2		
150C1	0A2	
150C2	0A2	
150C3	0D3	
150C4		0A2
171DDP		
311SU		
451PT		
1639		**6K7, 6Q7GT**
5928		
6374		
A676		76
A678		78
A863		6J7, 6J7GT
B36	12SN7GT, 12SN7GTA	
B65	6SN7GTB	
B152	12AT7	
B309	12AT7	
B319		7AN7
B329	12AU7A	
B339	12AX7, 12AX7A, 7025	
B719	6AQ8	
BPM04	6AQ5A	
CC81E	6201	
D2M9	6AL5	
D61		6CT7
D63		**6H6**
D77	6AL5	
D152	6AL5	
DA90	1A3	
DAC32	1H5GT	

Note: Types shown in bold face are RCA types.

*) **) For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
DAF91	**1S5**	
DAF92		**1U5**
DAF96	1AH5	**1S5**
DC70		1E3
DC80		1E3
DCC90	**3A5**	
DCF60		1V6
DD6		**6AL5**
DD7	6AM5	
DDR7	6AM5	
DF33	**1N5GT**	
DF62	1AD4	
DF91	**1T4**	
DF92	**1L4**	
DF96	1AJ4	**1T4**
DF97	1AN5	
DF904		**1U4**
DH63	**6Q7**	
DH63M		**6Q7, 6Q7GT**
DH76		**12Q7GT**
DH77	**6AT6**	
DH81		**7B6**
DH109	28AK8	
DH118		14L7
DH142		14L7
DH147		**6Q7, 6Q7GT**
DH149		**7C6**
DH150	6CV7	
DH719	**6T8A**	
DH817	6CV7	
DK32	1AB6, 1AC6	**1A7GT**
DK91	**1R5**	
DK92	1AC6	
DK96	1AB6	
DK97	1AB6	
DL29		3D6
DL31		**1A5GT**
DL33	**3Q5GT**	
DL35	**1C5GT**	

Note: Types shown in bold face are RCA types.

*) For footnotes, see page 75.
**)

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
DL36		1Q5GT
DL63		6R7
DL74M		12Q7GT
DL82		7B6
DL91	1S4	
DL92	3S4	
DL93	3A4	
DL94	3V4	
DL95	3Q4	
DL96	3C4	3V4
DL98	3B4	
DL193		3A4
DM70	1M3	
DM71	1N3	
DP61	6AK5	
DS77		6AL5
DY30		1B3GT
DY80		1X2B
DY86	1S2	
DY87	1S2A	
E81CC	6201	
E88CC	6922	
E90F		6661/6BH6, 6BH6
E91AA	5726	
E91H		5915
E91N	5727	
E95F	5654	
E99F		6BJ6
E182CC		7044
E182F	5847	
E188CC		6922
EA50	6D1	
EAA91	6AL5	
EAA171		6AL5
EAA901S	5726	6AL5
EABC80	6T8A	
EAF42	6CT7	

Note: Types shown in bold face are RCA types.

*, ** } For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
EB34		**6H6**
EB91	**6AL5**	
EBC33		**6Q7, 6Q7GT**
EBC41	6CV7	
EBC80		6BD7A
EBC81	6BD7A	
EBC90	**6AT6**	
EBC91	**6AV6**	
EBF32		**6B8**
EBF80	6N8	
EBF83	6DR8	
EBF89	6DC8	
EBF171		6N8
EBF175		6DC8
EBL31		
EC70	**5718**	
EC71	**5718**	
EC80	6Q4	**6BC4**
EC81	6R4	
EC86	6CM4	
EC90	**6C4**	
EC91	6AQ4	
EC92	**6AB4**	
EC93	6BS4	**6AF4, 6AF4A**
EC95	**6ER5**	
EC97	6FY5	**6FQ5A**
ECC32		**6SN7GTB**
ECC33		**6SN7GTB**
ECC34		
ECC35		**6SL7GT**
ECC40		**6N7GT**
ECC70	**6021**	
ECC81	**12AT7**	
ECC82	**12AU7A**	
ECC83	**12AX7A**, 7025	
ECC84	6CW7	
ECC85	**6AQ8**	
ECC86		6GM8

Note: Types shown in bold face are RCA types.

*) **) For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
ECC88	6DJ8	
ECC89		**6ES8**
ECC91	**6J6A**	
ECC180		**6BQ7A**
ECC189	**6ES8**	
ECC801S	**6201**	
ECF80	**6BL8**	
ECF82	**6U8A**	
ECF86	6HG8	
ECH3G		**6K8**
ECH35		**6K8**
ECH42	6CU7	
ECH81	6AJ8	
ECH83	6DS8	
ECH113	6CU7	
ECH171		6AJ8
ECL80	6AB8	
ECL82	6BM8	
ECL83		6BM8
ECL84	**6DX8**	
ECL85	6GV8	
ECL86	6GW8	
ED2		**6AL5**
EF5	6DA6	
EF9		**6K7, 6K7GT**
EF13	6DA6	
EF22		**7B7**
EF36		**6J7, 6J7GT**
EF37A		**1620, 6J7GT**
EF39		**6K7, 6K7GT**
EF40		**5879**
EF41	6CJ5	
EF42		**6EW6**
EF50		
EF55		
EF80	6BX6	
EF82		
EF85	6BY7	

Note: Types shown in bold face are RCA types.

*, ** For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
EF86	6CF8	
EF89	6DA6	
EF89F	6DU6	
EF91	6AM6	
EF92	6CQ6	
EF93	**6BA6**	
EF94	**6AU6**	
EF95	**6AK5**	
EF96		**6AG5**
EF97	6ES6	
EF98	6ET6	
EF174		6BX6
EF175		6BY7
EF183	**6EH7**	
EF184	**6EJ7**	
EF730	**5636**	
EF731	**5899**	
EF732	**5840**	
EF734	**6205**	
EF905	**5654**	**6AK5**
EH90	**6CS6**	
EH900		**5915**
EK90	**6BE6**	
EL32		**6V6GT, 6V6GTA**
EL33		**6V6, 6V6GT, 6V6GTA**
EL34	6CA7	
EL34MP	6CA7	
EL35		**6Y6G**
EL36	6CM5	
EL37		**7027A**
EL37MP		**7027A**
EL38	6CN6	
EL41	6CK5	**6CL6**
EL42		
EL71	**5902**	
EL81	6CJ6	
EL82	6DY5	

Note: Types shown in bold face are RCA types.

*, ** For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
EL83	6CK6	**6CL6**
EL84	**6BQ5**	
EL84MP	**6BQ5**	
EL85	6BN5	
EL86	**6CW5**	
EL90	**6AQ5A**	
EL91	6AM5	
EL95	6DL5	
EL360		6CM5
EL821	6CH6	
EL822		**6BQ5**
EM34	6CD7	
EM35		
EM80	6BR5	
EM81	6DA5	
EM84	**EM84/6FG6**	
EM85	6DG7	
EM840		**EM84/6FG6**
EN32	**2050A**	
EN91	**2D21**	
EN92		**5696**
EN93	6D4	
EQ80	6BE7	
EY51	6X2	
EY80	6U3	
EY81	6R3	**6AF3**
EY82	6N3	
EY83		6S2
EY84		6374
EY86	6S2	
EY87	6S2A	
EY88	**6AL3**	
EY91		
EZ4	**6CA4**	
EZ35	**6X5GT**	
EZ40	6BT4	
EZ41		
EZ80	6V4	
EZ81	**6CA4**	
EZ90	**6X4**	

Note: Types shown in bold face are RCA types.

*, ** For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
GZ30	**5Z4**	
GZ31		**5U4G, 5U4GB**
GZ32		**5V4GA**
GZ33		5AR4
GZ34	5AR4	
H63		**6F5**
HAA91		**12AL5**
HABC80		**19T8**
HBC90	**12AT6**	
HBC91	**12AV6**	
HCC85	17EW8	
HCH81	12AJ7	
HD14		**1H5G, 1H5GT**
HD30		3B4
HD51	**0A2**	
HD52	**0B2**	
HD94	**6BQ6GTB/ 6CU6**	
HD96	**25BQ6GTB/ 25CU6**	
HF61	6CJ5	
HF93	**12BA6**	
HF94	**12AU6**	
HF121	12AC5	
HK90	**12BE6**	
HL90		19AQ5
HL92	**50C5**	
HL94	30A5	**35C5**
HM04	**6BE6**	
HY90	**35W4**	
KD21		**0A3**
KD24		**0C3**
KD25		**0D3**
KL35		1F5G
KT32		**25L6, 25L6GT**
KT61	6AG6G	
KT63		**6F6, 6F6G, 6F6GT**

Note: Types shown in bold face are RCA types.

*) **) For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
KT66		7027A
KT71		50L6GT
KT77		7027A
KT81		7C5
KTW61		6S7
KTW63		6K7, 6K7GT
KTW74M		12K7GT
KTZ63	6J7GT	
L63	6J5	
L63B	6J5GT	
L77	6C4	
LN119	50BM8	
LN152	6AB8	
LZ319	9A8	9U8A
M8079		6AL5
M8080		6C4
M8081	6101	6J6
M8082		6AM5
M8083		6AM6
M8100		6AK5, 5654
M8136	6189	12AU7
M8162	12AT7WA	12AT7
M8196	5725	6AS6
M8204	5727	2D21
M8212	5726	6AL5
M8214		12AX7A
M8223	0A2WA	0A2
M8224	0B2WA	0B2
M8232	6J4WA	6J4
M8245	6005	6AQ5A
N14		1C5GT
N15		3Q5GT
N16		3Q5GT
N17	3S4	
N18	3Q4	
N19	3V4	
N77		6AM5
N78	6BJ5	

Note: Types shown in bold face are RCA types.

*
**
For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
N119	45B5	
N142	45A5	
N144	6AM5	
N147	6AG6G	
N148		7C5
N150	6CK5	
N152	21A6	
N153	15A6	
N154	16A5	
N308		25E5
N309		15A6
N329	16A5	
N359	21A6	
N369	16A8	
N379	15CW5	
N707		**6BQ5**
N709	**6BQ5**	
N727	**6AQ5A**	
OBC3		12SQ7, 12SQ7GT
OF1		6S7
OH4		12A8GT
OM4		6Q7, 6Q7GT
OM6		6K7, 6K7GT
OSW2190		6AC7
OSW2192		6AG7
OSW2600		6AC7
OSW3104		6SA7
OSW3105		6SQ7
OSW3106		6V6
OSW3109		6H6
OSW3110	6E5	
OSW3111		6SK7
OSW3112		6J5
PABC80	9AK8	
PC86	4CM4	
PC95	4ER5	
PCC84	7AN7	

Note: Types shown in bold face are RCA types.

*) **) For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
PCC85	9AQ8	
PCC88	7DJ8	
PCF80	9A8	**9U8A**
PCF82		**9U8A**
PCL82	16A8	
PCL83		
PCL84	15DQ8	
PF9		**6K7**
PH4		**6A8**
PL21		**2D21**
PL36	25E5	
PL81	21A6	
PL82	16A5	
PL83	15A6	
PL84	15CW5	
PL820		21A6
PM04	**6BA6**	
PM05	**6AK5**	
PM07	6AM6	
PY32		
PY80	19X3	
PY81	17Z3	
PY82	19Y3	
PY83		17Z3
PY88		30AE3
QA2400		6CQ6
QA2401		**6C4**
QA2402		6AM5
QA2403		6AM6
QA2404		**6AL5**
QA2406		**12AT7**
QA2407		**6X4**
QA2408		**6SN7GTB**
QE03/10	5763	
QQE02/5	6939	
QQV02-6	6939	
QS1206		0B2
QS1207	0A2	

Note: Types shown in bold face are RCA types.

*, ** For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
QS1208	**0B2**	
QV03-12	**5763**	
R12		6X2
R12A		6X2
R17		6N3
R19		**1X2B**
R52		**5Z4**
R144	6AM6	
REL39		**6AC7**
S856	**0A2**	
S860	**0B2**	
SP6	6AM6	
SU61	6X2	
T2M05		**6J6A**
TM12		**6J4**
U17		**1T4**
U26	6S2	
U41		**1B3GT**
U43	6X2	
U49	6S2	
U50	**5Y3GT**	
U52	**5U4G, 5U4GB**	
U70		**6X5GT**
U74		**35Z4GT**
U76		**35Z4GT**
U78	**6X4**	
U82		**7Y4**
U142	38A3	
U147		**6X5GT**
U149		**7Y4**
U150	6BT4	
U151	6X2	
U152	19X3	
U153	17Z3	
U154	19Y3	
U192	19Y3	
U309		19X3
U319		19Y3
U381	38A3	

Note: Types shown in bold face are RCA types.

*) **) For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
U404		31A3
U709	**6CA4**	
UABC80	28AK8	
UAF42	12S7	
UBC41	14L7	
UBC80		
UBF80	17C8	
UC92	9AB4	
UCC85	26AQ8	
UCH42	14K7	
UCH81	19D8	
UCL82	50BM8	
UF6A7		**6A7**
UF41	12AC5	
UF89	12DA6	
UL41	45A5	
UL84	45B5	
UL84MP	45B5MP	
UM80	19BR5	
UU9		6BT4
UU12	**6CA4**	
UY24B		**24A**
UY27		**27**
UY27A		**27**
UY35B		35
UY36		36
UY36A		36
UY37		37
UY37A		37
UY41	31A3	
UY42		
UY47		**47**
UY76		76
UY82	55N3	
UY85	38A3	
UY92		
UY224		**24A**
V2M70		**6X4**

Note: Types shown in bold face are RCA types.

*, ** For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
V61	6BT4	
V741	**6C4**	
V884	6CQ6	
W17	**1T4**	
W61		**6K7, 6K7GT**
W63		**6K7, 6K7GT**
W76		**12K7GT**
W77	6CQ6	
W81		**7H7**
W81M		**7H7**
W143		**7B7**
W147		**6K7, 6K7GT**
W148		**7H7**
W149		**7B7**
W150	6CJ5	
W719	6BY7	
W727	**6BA6**	
W739		6DA6
WD142	12S7	
WD150	6CT7	
WD709	6N8	
X14		**1A7GT**
X17		**1R5**
X18	1AC6	
X20	1AC6	
X25	1AB6	
X63(M)		**6A8**
X64		**6L7**
X77	**6BE6**	
X79	6AE8	
X81		7S7
X144		**1A7GT**
X147		**6K8**
X148		7S7
X719	6AJ8	
X727	**6BE6**	
XC95	**2ER5**	

Note: Types shown in bold face are RCA types.

*, ** For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
XC97	2FY5	
XCC82	**7AU7**	
XCC189	**4ES8**	
XCF80	**4BL8**	
XCH81	3AJ8	
XCL82	8B8	
XF80	3BX6	
XF85	3BY7	
XF183	3EH7	
XF184	3EJ7	
XFR1		1AD4
XL36	13CM5	
XL84	**8BQ5**	
XL86	8CW5	
XY88	16AQ3	
Y25	1N3	
Y61		**6U5**
Y63		**6U5**
Y119	19BR5	
YC95	**3ER5**	
YF183	**4EH7**	
YF184	**4EJ7**	
Z14		**1N5GT**
Z63	**6J7**	
Z77	6AM6	
Z152	6BX6	
Z300T		**0A4G**
Z719	6BX6	
Z729	6CF8	**5879**
Z900T	**5823**	
ZD9		
ZD17	**1S5**	
ZD25	1AH5	
ZD152	6N8	

Note: Types shown in bold face are RCA types.

*, ** For footnotes, see page 75.

RCA SILVERAMA AND COLORAMA CHARACTERISTICS AND REPLACEMENT CHARTS

For More Information on a Specific Tube Type, Write to

RCA COMMERCIAL ENGINEERING
HARRISON, N. J.

With only 106 types of RCA Silverama® Universal Replacement Picture Tubes, the TV service technician can replace 314 different industry picture-tube types. In addition, with six RCA Colorama Picture Tubes, the TV service technician can replace nine different color picture-tube types. These charts list the RCA direct replacement type, or the RCA similar type, when one or the other is available.

NOTICE: ALL MATERIALS AND PARTS USED IN THE MANUFACTURE OF RCA SILVERAMA PICTURE TUBES ARE NEW EXCEPT FOR THE ENVELOPE WHICH, PRIOR TO RE-USE, WAS CAREFULLY INSPECTED TO MEET THE STANDARDS OF THE ORIGINAL NEW ENVELOPE.

RCA COLORAMA PICTURE TUBES CONTAIN USED MATERIALS WHICH, PRIOR TO RE-USE, ARE CAREFULLY INSPECTED TO MEET RCA'S HIGH QUALITY STANDARDS.

RCA PICTURE-TUBE CHARACTERISTICS CHART +

RCA Type	Envelope	Aluminized Screen	Faceplate[a]	Minimum Screen Size Inches	Focusing Method	Deflection Method	Approx. Diagonal Deflection Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor[b])[c] Volts	PM Ion-Trap Magnet Required
SILVERAMA TYPES FOR BLACK-AND-WHITE TV											
5TP4[d]	Ⓖ	Yes	CL	4½ Dia.	E	M	50[e]	Cavity Cap	12C	27000	No
7JP4	Ⓖ	No	CL	6 Dia.	E	E	(f)	Base Pin	14R	6000	No
8DP4	Ⓖ	No	FG	7 3/16 x 5 3/8	E	M	90	Cavity Cap	12AB	8000	Yes
8KP4	Ⓖ	Yes	FG	7 3/16 x 5 3/8	E	M	90	Cavity Cap	12M	16000	No
10BP4A	Ⓖ	No	FG	9 1/8 Dia.	M	M	50[e]	Cavity Cap	12N	12000	Yes
10FP4A	Ⓖ	Yes	FG	9 1/8 Dia.	M	M	50[e]	Cavity Cap	12N	12000	No
12KP4A	Ⓖ	Yes	FG	11 1/8 Dia.	M	M	54[e]	Cavity Cap	12N	12000	No
12LP4A	Ⓖ	No	FG	11 Dia.	M	M	54[e]	Cavity Cap	12N	12000	Yes
14ATP4[g]	Ⓖ	Yes	FG	12 1/16 x 9½	E	M	90	Cavity Cap	12L	14000	No
14BAP4	Ⓖ	Yes	FG	11½ x 8 3/8	E	M	70	Cavity Cap	12L	22000[h]	No
14EP4	Ⓖ	No	FG	11½ x 8 3/8	M	M	70	Cavity Cap	12N	14000	Yes

14HP4	G	No	FG	11½ x 8⅝	E	M	70	Cavity Cap	12L	14000	Yes
14QP4A	G	Yes	FG	11½ x 8⅝	E	M	70	Cavity Cap	12L	11000	Yes
14PW4	G	Yes	FG	12 1/16 x 9½	E	M	90	Cavity Cap	12L	14000	No
16AP4A	M	No	FG	14⅜ Dia.	M	M	53[e]	Metal-Shell Lip	12D	14000	Yes
16DP4A	G	No	FG	14½ Dia.	M	M	60[e]	Cavity Cap	12D	15000	Yes
16GP4B	M	No	FFG	14⅜ Dia.	M	M	70[e]	Metal-Shell Lip	12D	14000	Yes
16LP4A	G	No	FG	14½ Dia.	M	M	52[e]	Cavity Cap	12N	14000	Yes
16RP4A	G	Yes	FG	13½ x 10⅛	M	M	70	Cavity Cap	12N	16000	Yes
16TP4	G	No	FG	13½ x 10⅛	M	M	70	Cavity Cap	12N	14000	Yes
16WP4A	G	No	FG	14½ Dia.	M	M	70[e]	Cavity Cap	12N	16000	Yes
17BJP4	G	Yes	FG	14 5/16 x 11⅛	E	M	90	Cavity Cap	12L	16000	No
17BP4B	G	Yes	FG	14 5/16 x 11⅛	M	M	70	Cavity Cap	12N	16000	Yes
17CDP4[g]	G	Yes	FG	14¾ x 11 11/16	E	M	110	Cavity Cap	8HR	16000	No
17CFP4	G	Yes	FG	14¾ x 11 11/16	E	M	90	Cavity Cap	12L	16000	No
17CP4	M	No	FFG	14⅜ x 10 11/16	M	M	70	Metal-Shell Lip	12D	16000	Yes
17CSP4	G	Yes	FG	14¾ x 11 11/16	E	M	110	Cavity Cap	7FA	17600[h]	No
17CYP4	G	Yes	FG	14¾ x 11 11/16	E	M	90	Cavity Cap	12L	16000	No
17DAP4[i]	G	Yes	FG	14¾ x 11 11/16	E	M	110	Cavity Cap	8JK	16000	No

For footnotes, see page 108.

RCA PICTURE-TUBE CHARACTERISTICS CHART [+] *(cont'd)*

RCA Type	Envelope	Alumi-nized Screen	Face-plate[n]	Minimum Screen Size Inches	Focusing Method	Deflection Method	Approx. Diagonal Deflec-tion Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor[b])[c] Volts	PM Ion-Trap Magnet Required
SILVERAMA TYPES FOR BLACK-AND-WHITE TV *(Cont'd)*											
17DKP4	G	Yes	FG	14¾ x 11¹¹⁄₁₆	E	M	110	Cavity Cap	8JR	23000[h]	No
17DQP4[k]	G	Yes	FG	14¾ x 11¹¹⁄₁₆	E	M	110	Cavity Cap	7FA	17600[h,p]	No
17DSP4	G	Yes	FG	14¾ x 11¹¹⁄₁₆	E	M	110	Cavity Cap	8HR	18000	No
17DWP4	G	Yes	FG	14⁵⁄₁₆ x 11⅛	E	M	70	Cavity Cap	12L	20000	No
17DXP4[k]	G	Yes	FG	14¾ x 11¹¹⁄₁₆	E	M	110	Cavity Cap	8JR	16000	No
17GP4	M	No	FFG	14⅜ x 10¹¹⁄₁₆	E	M	70	Metal-Shell Lip	12M	16000	Yes
17HP4B	G	Yes	FG	14⁵⁄₁₆ x 11⅛	E	M	70	Cavity Cap	12L	16000	Yes
17LP4A	G	Yes	FG[m]	14¼ x 10¾	E	M	70	Cavity Cap	12L	16000	Yes
17QP4A	G	Yes	FG[m]	14¼ x 10¾	M	M	70	Cavity Cap	12N	18000	Yes
17TP4	M	No	FFG	14⅜ x 10¹¹⁄₁₆	E	M	70	Metal-Shell Lip	12M	16000	Yes
19AFP4	G[n]	Yes	FG	15¼ x 12¹⁄₁₆	E	M	114	Cavity Cap	8HR	20000[h]	No

19AJP4[k]	G	Yes	FG	15⅛ x 12	E	M	114	Cavity Cap	7FA	19800[h,p]	No
19ANP4[k]	G	Yes	FG	15⅛ x 12	E	M	114	Cavity Cap	8JR	20000[h]	No
19AP4B	M	No	FFG	17⅜ Dia.	M	M	66[e]	Metal-Shell Lip	12D	16000	Yes
19AUP4	G[n]	Yes	FG[r]	15¼ x 12 1/16	E	M	114	Cavity Cap	8HR	20000[h]	No
19AVP4	G	Yes	FG	15⅛ x 12	E	M	114	Cavity Cap	8HR	23000[h]	No
19AYP4[k]	G	Yes	FG	15⅛ x 12	E	M	114	Cavity Cap	8HR	23000[h]	No
19BDP4	G	Yes	FG	15⅛ x 12	E	M	92	Cavity Cap	12L	19800[h,p]	No
19BFP4	G	Yes	FG	15⅛ x 12	E	M	92	Cavity Cap	12L	20000[h]	No
19BTP4	G	Yes	FG	15⅛ x 12	E	M	114	Cavity Cap	8JR	23000[h]	No
19CHP4	G	Yes	FG	15⅛ x 12	E	M	114	Cavity Cap	8HR	20000[h,p]	No
19CKP4	G	Yes	FG	15⅛ x 12	E	M	114	Cavity Cap	8HR	22000[h,p]	No
19YP4	G	Yes	FG	15⅛ x 12	E	M	114	Cavity Cap	8JR	20000[h]	No
20DP4C	G	Yes	FG	17 x 12¾	M	M	70	Cavity Cap	12N	18000	Yes
20HP4D	G	Yes	FG	17 x 12¾	E	M	70	Cavity Cap	12L	16000	Yes
21AMP4A	G	Yes	FG	19 1/16 x 15 1/16	M	M	90	Cavity Cap	12N	18000	Yes
21AP4	M	No	FFG	18⅛ x 13 11/16	M	M	70	Metal-Shell Lip	12D	18000	Yes
21AVP4B	G	Yes	FG	19 1/16 x 15 1/16	E	M	72	Cavity Cap	12L	20000	Yes
21AWP4	G	Yes	FG	19 1/16 x 15 1/16	M	M	72	Cavity Cap	12N	18000	Yes

For footnotes, see page 108.

RCA PICTURE-TUBE CHARACTERISTICS CHART [+] *(cont'd)*

RCA Type	Envelope	Alumi-nized Screen	Face-plate[a]	Minimum Screen Size Inches	Focusing Method	Deflection Method	Approx. Diagonal Deflec-tion Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor[b])[c] Volts	PM Ion-Trap Magnet Required
SILVERAMA TYPES FOR BLACK-AND-WHITE TV *(Cont'd)*											
21CBP4A	G	Yes	FG	19 1/16 x 15 1/16	E	M	90	Cavity Cap	12L	20000	No
21CQP4	G	Yes	FG	19 1/16 x 15 1/16	E	M	110	Cavity Cap	7FA	18000	No
21DEP4A	G	Yes	FG	19 1/16 x 15 1/16	E	M	110	Cavity Cap	8HR	20000	No
21DFP4	G	Yes	FG	19 1/16 x 15 1/16	E	M	110	Cavity Cap	8HR	18000	No
21DHP4[k]	G	Yes	FG	19 1/16 x 15 1/16	E	M	110	Cavity Cap	8HR	18000	No
21DLP4	G	Yes	FG	19 1/16 x 15 1/16	E	M	90	Cavity Cap	12L	20000	No
21DSP4	G	Yes	FG	19 1/16 x 15 1/16	E	M	90	Cavity Cap	12L	20000[p]	No
21EP4B	G	Yes	FG[m]	19 1/8 x 13 3/8	M	M	70	Cavity Cap	12N	18000	Yes
21EQP4	G	Yes	FG	19 1/16 x 15 1/16	E	M	110	Cavity Cap	8JR	18000	No
21EYP4	G	Yes	FG	19 1/16 x 15 1/16	E	M	72	Cavity Cap	12L	20000	No
21FAP4	G	Yes	FG	19 1/16 x 15 1/16	E	M	110	Cavity Cap	8JR	22000[h]	No

21FDP4	G	Yes	FG	19 1/16 x 15 1/16	E	M	110	Cavity Cap	8KW	20000[h]	No
21FP4C	G	Yes	FG[m]	19 1/8 x 13 3/8	E	M	70	Cavity Cap	12L	18000	Yes
21MP4	M	No	FFG	18 1/8 x 13 11/16	E	M	70	Metal-Shell Lip	12M	16000	Yes
21WP4A	G	Yes	FG	17 3/8 x 13 5/8	M	M	70	Cavity Cap	12N	18000	Yes
21XP4A	G	Yes	FG	17 3/8 x 13 5/8	E	M	70	Cavity Cap	12L	18000	Yes
21YP4A	G	Yes	FG	19 1/16 x 14 3/16	E	M	70	Cavity Cap	12L	18000	Yes
21ZP4B	G	Yes	FG	19 1/16 x 14 3/16	M	M	70	Cavity Cap	12N	18000	Yes
23AFP4	G[n]	Yes	FG	19 5/16 x 15 1/4	E	M	92	Cavity Cap	12L	25000[h]	No
23AHP4	G	Yes	FG	19 1/4 x 15 1/8	E	M	92	Cavity Cap	12L	22000[h]	No
23ALP4[k]	G	Yes	FG	19 1/4 x 15 1/8	E	M	114	Cavity Cap	8HR	22000[h]	No
23ASP4	G	Yes	FG	19 1/4 x 15 1/8	E	M	92	Cavity Cap	12L	22000[h]	No
23AVP4	G[n]	Yes	FG[r]	19 5/16 x 15 1/4	E	M	110	Cavity Cap	8HR	22000[h]	No
23BDP4	G[n]	Yes	FG[r]	19 5/16 x 15 1/4	E	M	92	Cavity Cap	12L	22000[h]	No
23BJP4	G	Yes	FG	19 1/4 x 15 1/8	E	M	92	Cavity Cap	12L	25000[h,p]	No
23BKP4	G[n]	Yes	FG	19 5/16 x 15 1/4	E	M	92	Cavity Cap	12L	25000[h,p]	No
23BLP4	G[n]	Yes	FG[r]	19 5/16 x 15 1/4	E	M	92	Cavity Cap	12L	25000[h,p]	No
23BQP4[k]	G[n]	Yes	FG	19 5/16 x 15 1/4	E	M	110	Cavity Cap	8HR	23000[h]	No
23BTP4	G[n]	Yes	FG	19 5/16 x 15 1/4	E	M	92	Cavity Cap	12L	25000[h]	No

For footnotes, see page 108.

RCA PICTURE-TUBE CHARACTERISTICS CHART [+] *(cont'd)*

Type	Envelope	Alumi-nized Screen	Face-plate[a]	Minimum Screen Size Inches	Focusing Method	Deflection Method	Approx. Diagonal Deflec-tion Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor[b])[c] Volts	PM Ion-Trap Magnet Required
SILVERAMA TYPES FOR BLACK-AND-WHITE TV *(Cont'd)*											
23CBP4[k]	G[n]	Yes	FG[r]	19⅝ x 15¼	E	M	110	Cavity Cap	8HR	23000[h]	No
23CP4	G[n]	Yes	FG	19⅝ x 15¼	E	M	110	Cavity Cap	8HR	22000[h]	No
23DAP4	G	Yes	FG	19¼ x 15⅛	E	M	94	Cavity Cap	8HR	23500[h,p]	No
23EP4	G[n]	Yes	FG	19⅝ x 15¼	E	M	110	Cavity Cap	8KP	22000[h,p]	No
23FP4	G	Yes	FG	19¼ x 15³⁄₁₆	E	M	114	Cavity Cap	8HR	22000[h]	No
23MP4	G	Yes	FG	19¼ x 15⅛	E	M	114	Cavity Cap	8HR	22000[h]	No
23UP4[k]	G[n]	Yes	FG	19⅝ x 15¼	E	M	110	Cavity Cap	8HR	18000[h]	No
23YP4	G[n]	Yes	FG	19⅝ x 15¼	E	M	92	Cavity Cap	12L	22000[h]	No
24AEP4	G	Yes	FG	21⁷⁄₁₆ x 16⅞	E	M	90	Cavity Cap	12L	20000	No
24AHP4	G	Yes	FG	21⁷⁄₁₆ x 16⅞	E	M	110	Cavity Cap	8HR	20000	No
24ATP4	G	Yes	FG	21⁷⁄₁₆ x 16⅞	E	M	90	Cavity Cap	12L	20000[p]	No

24AUP4	G	Yes	FG	21 7/16 x 16 7/8	E	M	90	Cavity Cap	12L	20000	No
24BAP4	G	Yes	FG	21 7/16 x 16 7/8	E	M	110	Cavity Cap	8HR	20000[n]	No
24CP4A	G	Yes	FG	21 7/16 x 16 7/8	M	M	90	Cavity Cap	12N	20000	Yes
27MP4	M	Yes	FFG	23 7/16 x 18 1/8	M	M	90	Metal-Shell Lip	12D	18000	Yes
27RP4	G	Yes	FG	24 1/4 x 18 3/8	M	M	90	Cavity Cap	12N	20000	Yes
27VP4	G	Yes	FG	24 1/4 x 18 3/8	E	M	90	Cavity Cap	12L	18000	No
27XP4	G	Yes	FG	24 1/4 x 18 3/8	E	M	90	Cavity Cap	12L	23000[h]	No
27ZP4	G	Yes	FG	24 1/4 x 18 3/8	E	M	110	Cavity Cap	8HR	22000[h]	No

COLORAMA TYPES FOR COLOR TV

15GP22[s,t]	G	Yes	CL	11 1/2 x 8 3/8	E	M	45[e]	Metal Flange	20A	20000	No
21AXP22A[t]	M	Yes	FG	19 1/16 x 15 1/4	E	M	70[e]	Metal Shell	14AH	25000	No
21CYP22A[u]	G	Yes	FG	19 1/4 x 15 1/2	E	M	70[e]	Two Cavity Caps	14AL	25000	No
21FBP22[t]	G	Yes	FG	19 1/4 x 15 1/2	E	M	70[e]	Cavity Cap	14AU	27500[h]	No
21FJP22[t]	G[v]	Yes	FG[r]	19 1/4 x 15 1/2	E	M	70[e]	Cavity Cap	14AU	27500[h]	No
21FKP22[t]	G[v]	Yes	FG	19 1/4 x 15 1/2	E	M	70[e]	Cavity Cap	14AU	27500[h]	No

For footnotes, see page 108.

RCA PICTURE-TUBE CHARACTERISTICS CHART

EXPLANATION OF FOOTNOTES

✠ Active RCA Picture-Tube Types shown here can replace more than 300 different types of industry picture tubes. The RCA Picture Tube Replacement and Interchangeability Chart is available on request.

Unless otherwise noted, all picture tubes listed have 6.3-volt, 600-milliampere heaters.

G Glass rectangular.
Ⓖ Glass round.
M Metal rectangular.
Ⓜ Metal round.
CL Clear glass.
FG Filterglass.
FFG Frosted Filterglass.
M Magnetic.
E Electrostatic.

a Spherical, unless otherwise specified.

b ULTOR is defined as the electrode, or the electrode in combination with one or more additional electrodes connected within the tube to it, to which is applied the highest dc voltage for accelerating the electrons in the beam prior to its deflection.

c Design-Center Value, unless otherwise indicated.

d Projection type.

e Horizontal deflection angle.

f Typical deflection factors (volts dc/in.) for ultor voltage of 6000 volts:

DJ1 & DJ2 (nearer screen)
186 to 246

DJ3 & DJ4 (nearer base)
150 to 204

g 8.4-volt, 450-milliampere heater.

h Design-Maximum Value.

j 2.68-volt, 450-milliampere heater.

k 6.3-volt, 450-milliampere heater.

m Cylindrical faceplate.

n Bipanel type.

p Referred to Grid No. 1: Cathode-Drive Service. Has low grid-2 voltage rating.

r Treated to reduce specular reflection.

q 2.35-volt, 600-milliampere heater.

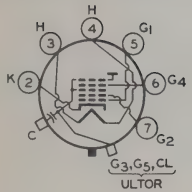
s This type has a flat, aluminized, filterglass, phosphor-dot screen plate.

t 6.3-volt, 1.8-ampere heater (three heaters paralleled internally).

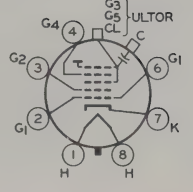
u 6.3-volt, 1.6-ampere heater (three heaters paralleled internally).

v This type has an integral protective window.

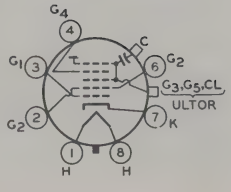
Note: For basing diagrams, see pages 109 and 110.



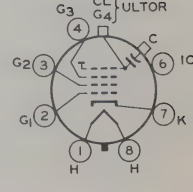
7FA
FOCUSING ELECTRODE = G_4



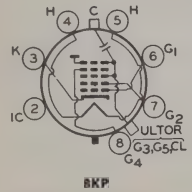
8HR
FOCUSING ELECTRODE = G_4



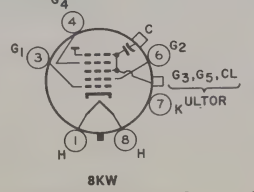
8JK
FOCUSING ELECTRODE = G_4



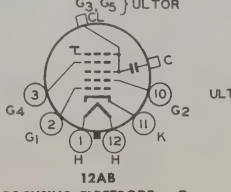
8JR
FOCUSING ELECTRODE = G_3



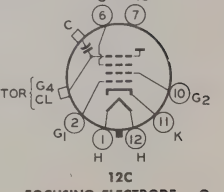
8KP
FOCUSING ELECTRODE = G_4



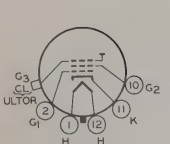
8KW
FOCUSING ELECTRODE = G_4



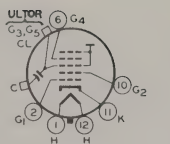
12AB
FOCUSING ELECTRODE = G_4



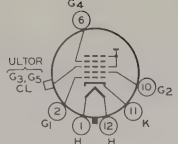
12C
FOCUSING ELECTRODE = G_3



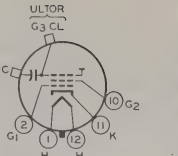
12D



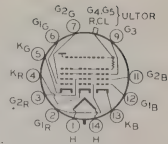
12L
FOCUSING ELECTRODE = G_4



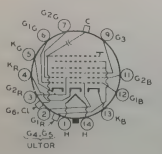
12M
FOCUSING ELECTRODE = G_4



12N

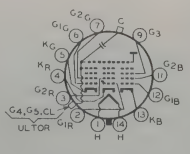


14AH
FOCUSING ELECTRODE = G_3

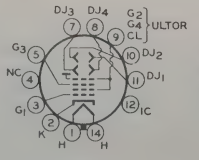


14AL

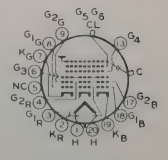
14AL
CAP OVER PIN NO. 1:
CAP OVER PIN NO. 2:
G_6 + CL & HIGH-VOLTAGE TERMINAL. Connect High-Voltage Supply to this Cap and also connect 50,000-ohm resistor between this Cap and the Cap over Pin No. 1 (Ultor Cap).
FOCUSING ELECTRODE = G_3



14AU
FOCUSING ELECTRODE = G_3



14R
FOCUSING ELECTRODE = G_3



20A
FOCUSING ELECTRODE = G_3

PICTURE-TUBE REPLACEMENT DIRECTORY
SILVERAMA TYPES

Type to be Replaced	Replace by RCA Type▲
5TP4	**5TP4**
7JP4	7JP4
8DP4	8DP4
8KP4	**8KP4**
10BP4 10BP4A	10BP4A
10BP4C **10BP4D** 10CP4	★**10FP4A**
10EP4	★10BP4A
10FP4 **10FP4A**	**10FP4A**
12JP4	★**12KP4A**
12KP4 **12KP4/** **12ZP4** **12KP4A**	**12KP4A**
12LP4 12LP4A **12LP4C**	12LP4A
12LP4C 12QP4 12QP4A	★**12KP4A**
12TP4	★12LP4A
12ZP4 **12ZP4A**	★**12KP4A**
14ATP4	**14ATP4**
14BAP4	**14BAP4**
14BP4 14BP4A 14CP4 **14CP4A**	14EP4
14DP4	★14EP4
14EP4 14EP4/ 14CP4 14EP4/ 14CP4/ 14BP4	14EP4
14HP4	14HP4
14NP4 **14NP4A**	★**14WP4**
14QP4 **14QP4A**	**14QP4A**
14RP4 **14RP4A** **14SP4**	★**14WP4**
14WP4 **14WP4/** **14ZP4** **14ZP4** **14ZP4/** **14WP4**	**14WP4**
16AP4 16AP4A	16AP4A
16CP4	★16LP4A
16DP4 16DP4A	16DP4A

▲The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY

SILVERAMA TYPES (cont'd)

Type to be Replaced	Replace by RCA Type▲
16GP4 16GP4A 16GP4B 16GP4C	16GP4B
16KP4 **16KP4A**	**16RP4A**
16LP4 16LP4A	16LP4A
16QP4	★**16RP4A**
16RP4 16RP4/ 16KP4 **16RP4A** **16RP4A/** **16KP4A**	**16RP4A**
16SP4 16SP4A	★16WP4A
16TP4	16TP4
16UP4	★**16RP4A**
16VP4 16WP4 16WP4/ 16YP4	★16WP4A
16WP4A	16WP4A
16WP4B	16WP4A
16XP4	★**16RP4A**
16YP4	★16WP4A
16ZP4	★16LP4A
17AP4	★**17BP4B**
17ATP4 17ATP4/ 17AVP4 **17ATP4A** **17ATP4A/** **17AVP4A** 17AVP4 17AVP4/ 17ATP4 **17AVP4A** **17AVP4A/** **17ATP4A**	★**17BJP4**
17BJP4	**17BJP4**
17BP4	★**17BP4B**
17BP4A **17BP4B** 17BP4C	**17BP4B**
17BRP4	★**17DSP4**
17BUP4	★**17BJP4**
17BVP4	★**17CSP4**
17BWP4	**17CSP4**
17BZP4 **17BZP4/** **17CAP4/** **17CKP4** **17BZP4/** **17CAP4/** **17CKP4/** **17BRP4** **17CAP4**	**17DSP4**
17CBP4	★**17BJP4**
17CDP4	**17CDP4**

▲The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY

SILVERAMA TYPES *(cont'd)*

Type to be Replaced	Replace by RCA Type▲
17CFP4	**17CFP4**
17CKP4	**17DSP4**
17CLP4	★**17BJP4**
17CP4 17CP4A	17CP4
17CSP4	**17CSP4**
17CWP4	**17DSP4**
17CYP4	**17CYP4**
17DAP4	**17DAP4**
17DKP4	**17DKP4**
17DLP4	**17DSP4**
17DQP4	**17DQP4**
17DSP4	**17DSP4**
17DTP4	**17DKP4**
17DWP4	**17DWP4**
17DXP4 **17DZP4**	**17DXP4**
17GP4	17GP4
17HP4 17HP4/ 17RP4 17HP4A **17HP4B** **17HP4B/** **17RP4C**	**17HP4B**
17JP4	**17BP4B**
17LP4 17LP4/ 17VP4 **17LP4A** **17LP4A/** **17VP4B**	**17LP4A**
17QP4 **17QP4A**	**17QP4A**
17RP4 **17RP4C**	**17HP4B**
17TP4	17TP4
17UP4	**17QP4A**
17VP4 17VP4/ 17LP4 **17VP4B**	**17LP4A**
17YP4	**17QP4A**
19AFP4	**19AFP4**
19AJP4	**19AJP4**
19ANP4	**19ANP4**
19AP4 19AP4A 19AP4B **19AP4C** 19AP4D	19AP4B
19AUP4	19AUP4
19AVP4	**19AVP4**
19AXP4 **19AYP4**	**19AYP4**
19BDP4	**19BDP4**

▲The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY
SILVERAMA TYPES *(cont'd)*

Type to be Replaced	Replace by RCA Type▲
19BFP4	**19BFP4**
19BTP4	**19BTP4**
19CHP4	**19CHP4**
19CKP4	**19CKP4**
19XP4	**19AVP4**
19YP4	**19YP4**
20CP4 20CP4A **20CP4B** 20CP4C **20CP4D** 20DP4	★**20DP4C**
20DP4A 20DP4A/ 20CP4A	**20DP4C**
20DP4B	★**20DP4C**
20DP4C **20DP4C/** **20CP4D**	**20DP4C**
20HP4	★**20HP4D**
20HP4A 20HP4A/ 20LP4 20HP4A/ 20MP4	**20HP4D**
20HP4B **20HP4C**	★**20HP4D**
20HP4D 20LP4 20MP4	**20HP4D**
21ACP4 21ACP4/ 21AMP4 **21ACP4A**	**21AMP4A**
21ACP4A/ **21AMP4A** **21ACP4A/** **21BSP4** **21ACP4A/** **21BSP4/** **21AMP4A**	**21AMP4A**
21AFP4	★**21YP4A**
21ALP4 **21ALP4A** **21ALP4B** **21ALP4B/** **21ALP4A**	★**21CBP4A**
21AMP4 **21AMP4A**	**21AMP4A**
21ANP4 **21ANP4A**	★**21CBP4A**
21AP4	21AP4
21AQP4 **21AQP4A**	★**21AMP4A**
21ASP4	★**21XP4A**
21ATP4 **21ATP4A** **21ATP4A/** **21ATP4** 21ATP4B	★**21CBP4A**

▲The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY
SILVERAMA TYPES *(cont'd)*

Type to be Replaced	Replace by RCA Type▲
21AUP4 **21AUP4A** **21AUP4B** **21AUP4B/ 21AUP4A** 21AVP4 21AVP4/ 21AUP4 **21AVP4A** **21AVP4B** **21AVP4B/ 21AVP4A** **21AVP4B/ 21AUP4B/ 21AVP4A/ 21AUP4A**	**21AVP4B**
21AWP4	**21AWP4**
21AYP4	**21XP4A**
21BAP4 **21BNP4**	**21CBP4A**
21BSP4	**21AMP4A**
21BTP4	★**21CBP4A**
21CBP4 **21CBP4A** **21CBP4A/ 21CBP4/ 21CMP4** **21CBP4B**	**21CBP4A**
21CEP4 **21CEP4A**	**21DFP4**
21CMP4	★**21CBP4A**
21CQP4	**21CQP4**
21CUP4	**21AMP4A**
21CVP4	**21CBP4A**
21CWP4	★**21CBP4A**
21CXP4	**21DSP4**
21CZP4	★**21DEP4A**
21DAP4 **21DEP4** **21DEP4A** **21DEP4A/ 21DEP4/ 21CZP4**	**21DEP4A**
21DFP4	**21DFP4**
21DHP4	**21DHP4**
21DLP4	**21DLP4**
21DMP4	**21FAP4**
21DNP4	★**21CBP4A**
21DQP4	**21DLP4**
21DSP4	**21DSP4**
21EAP4	★**21FDP4**
21EMP4	**21EQP4**
21EP4	★**21EP4B**
21EP4A **21EP4B**	**21EP4B**
21EQP4	**21EQP4**
21ESP4 **21FAP4**	**21FAP4**
21FDP4	**21FDP4**

▲The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY

SILVERAMA TYPES *(cont'd)*

Type to be Replaced	Replace by RCA Type▲
21FLP4	**21CBP4A**
21FP4	★**21FP4C**
21FP4A **21FP4C**	**21FP4C**
21MP4	21MP4
21WP4 **21WP4A**	**21WP4A**
21XP4 **21XP4A**	**21XP4A**
21YP4 **21YP4A**	**21YP4A**
21ZP4	★**21ZP4B**
21ZP4A **21ZP4B**	**21ZP4B**
23AFP4	**23AFP4**
23AHP4	**23AHP4**
23ALP4	**23ALP4**
23ANP4	**23BKP4**
23ASP4	**23ASP4**
23AVP4	**23AVP4**
23AWP4	★**23BJP4**
23BDP4	**23BDP4**
23BJP4	**23BJP4**
23BKP4	**23BKP4**
23BLP4	**23BLP4**
23BQP4	**23BQP4**
23BTP4	**23BTP4**
23CBP4	**23CBP4**
23CP4	**23CP4**
23DAP4	**23DAP4**
23EP4	**23EP4**
23FP4	**23FP4**
23GP4 **23HP4**	**23CP4**
23MP4	**23MP4**
23UP4	**23UP4**
23WP4	**23MP4**
23XP4 **23YP4**	**23YP4**
24ADP4 **24ADP4/** **24VP4A/** **24CP4A/** **24TP4**	**24CP4A**
24AEP4	**24AEP4**
24AHP4 **24ALP4**	**24AHP4**
24ANP4	★**24AEP4**
24ATP4	**24ATP4**
24AUP4	**24AUP4**

▲The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY

SILVERAMA TYPES (*cont'd*)

Type to be Replaced	Replace by RCA Type▲	Type to be Replaced	Replace by RCA Type▲
24BAP4	**24BAP4**	**24YP4**	★**24AEP4**
24CP4 **24CP4A**	**24CP4A**	**24ZP4**	**24AEP4**
24DP4 **24DP4A** **24DP4A/ 24YP4**	★**24AEP4**	**27EP4** 27GP4	★**27RP4**
		27MP4	**27MP4**
24QP4	★**24CP4A**	27NP4 **27RP4**	**27RP4**
24TP4 24VP4 **24VP4A**	**24CP4A**	**27VP4**	**27VP4**
		27XP4	**27XP4**
24XP4	★**24CP4A**	**27ZP4**	**27ZP4**

COLORAMA TYPES

Type to be Replaced	Replace by RCA Type▲	Type to be Replaced	Replace by RCA Type▲
15GP22	15GP22	21CYP22 21CYP22A	21CYP22A
21AXP22 21AXP22A 21AXP22A/ 21AXP22	21AXP22A	21FBP22	21FBP22
		21FJP22	21FJP22
		21FKP22	21FKP22

▲The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

RCA PICTURE TUBES & THE TYPES THEY REPLACE

SILVERAMA TYPES

RCA TYPE	REPLACES
5TP4	**5TP4**
7JP4	7JP4
8DP4	8DP4
8KP4	**8KP4**
10BP4A	10BP4 10BP4A 10EP4
10FP4A	**10BP4C** **10BP4D** 10CP4 **10FP4** **10FP4A**
12KP4A	12JP4 **12KP4** **12KP4/ 12ZP4** **12KP4A** **12LP4C** 12QP4 12QP4A **12ZP4** **12ZP4A**
12LP4A	12LP4 12LP4A **12LP4C** 12TP4
14ATP4	**14ATP4**
14BAP4	**14BAP4**
14EP4	14BP4 14BP4A 14CP4 **14CP4A** 14DP4 14EP4 14EP4/ 14CP4 14EP4/ 14CP4/ 14BP4
14HP4	14HP4
14QP4A	14QP4 **14QP4A**
14WP4	14NP4 **14NP4A** 14RP4 **14RP4A** **14SP4** **14WP4** **14WP4/ 14ZP4** **14ZP4** **14ZP4/ 14WP4**
16AP4A	16AP4 16AP4A
16DP4A	16DP4 16DP4A
16GP4B	16GP4 16GP4A 16GP4B 16GP4C
16LP4A	16CP4 16LP4 16LP4A 16ZP4
16RP4A	16KP4 **16KP4A** 16QP4 16RP4 16RP4/ 16KP4 **16RP4A** **16RP4A/ 16KP4A** 16UP4 16XP4
16TP4	16TP4

Bold-Face Type indicates an Aluminized Tube.

RCA PICTURE TUBES & THE TYPES THEY REPLACE

SILVERAMA TYPES (cont'd)

RCA TYPE	REPLACES
16WP4A	16SP4 16SP4A 16VP4 16WP4 16WP4/ 16YP4 16WP4A **16WP4B** 16YP4
17BJP4	17ATP4 17ATP4/ 17AVP4 **17ATP4A** **17ATP4A/** **17AVP4A** 17AVP4 17AVP4/ 17ATP4 **17AVP4A** **17AVP4A/** **17ATP4A** **17BJP4** **17BUP4** 17CBP4 **17CLP4**
17BP4B	17AP4 17BP4 17BP4A **17BP4B** 17BP4C 17JP4
17CDP4	**17CDP4**
17CFP4	**17CFP4**
17CP4	17CP4 17CP4A
17CSP4	**17BVP4** **17BWP4** **17CSP4**
17CYP4	**17CYP4**
17DAP4	**17DAP4**
17DKP4	**17DKP4** **17DTP4**
17DQP4	**17DQP4**
17DSP4	**17BRP4** **17BZP4** **17BZP4/** **17CAP4/** **17CKP4** **17BZP4/** **17CAP4/** **17CKP4/** **17BRP4** **17CAP4** **17CKP4** **17CWP4** **17DLP4** **17DSP4**
17DWP4	**17DWP4**
17DXP4	**17DXP4** **17DZP4**
17GP4	17GP4
17HP4B	17HP4 17HP4/ 17RP4 17HP4A **17HP4B** **17HP4B/** **17RP4C** 17RP4 **17RP4C**
17LP4A	17LP4 17LP4/ 17VP4 **17LP4A** **17LP4A/** **17VP4B** 17VP4 17VP4/ 17LP4 **17VP4B**

Bold-Face Type indicates an Aluminized Tube.

RCA PICTURE TUBES & THE TYPES THEY REPLACE

SILVERAMA TYPES (cont'd)

RCA TYPE	REPLACES
17QP4A	17QP4 **17QP4A** 17UP4 17YP4
17TP4	17TP4
19AFP4	**19AFP4**
19AJP4	**19AJP4**
19ANP4	**19ANP4**
19AP4B	19AP4 19AP4A 19AP4B **19AP4C** 19AP4D
19AUP4	**19AUP4**
19AVP4	**19AVP4** **19XP4**
19AYP4	**19AXP4** **19AYP4**
19BDP4	**19BDP4**
19BFP4	**19BFP4**
19BTP4	**19BTP4**
19CHP4	**19CHP4**
19CKP4	**19CKP4**
19YP4	**19YP4**
20DP4C	20CP4 20CP4A **20CP4B** 20CP4C **20CP4D** 20DP4 20DP4A 20DP4A/ 20CP4A **20DP4B** **20DP4C** **20DP4C/** **20CP4D**

RCA TYPE	REPLACES
20HP4D	20HP4 20HP4A 20HP4A/ 20LP4 20HP4A/ 20MP4 20HP4B **20HP4C** **20HP4D** 20LP4 20MP4
21AMP4A	21ACP4 21ACP4/ 21AMP4 **21ACP4A** **21ACP4A/** **21AMP4A** **21ACP4A/** **21BSP4** **21ACP4A/** **21BSP4/** **21AMP4A** 21AMP4 **21AMP4A** 21AQP4 **21AQP4A** **21BSP4** **21CUP4**
21AP4	21AP4
21AVP4B	21AUP4 **21AUP4A** **21AUP4B** **21AUP4B/** **21AUP4A** 21AVP4 21AVP4/ 21AUP4 **21AVP4A** **21AVP4B** **21AVP4B/** **21AVP4A** **21AVP4B/** **21AUP4B/** **21AVP4A/** **21AUP4A**
21AWP4	**21AWP4**

Bold-Face Type indicates an Aluminized Tube.

RCA PICTURE TUBES & THE TYPES THEY REPLACE

SILVERAMA TYPES (cont'd)

RCA TYPE	REPLACES
21CBP4A	21ALP4 **21ALP4A** **21ALP4B** **21ALP4B/ 21ALP4A** 21ANP4 **21ANP4A** **21ATP4** 21ATP4A **21ATP4A/ 21ATP4** 21ATP4B **21BAP4** **21BNP4** **21BTP4** **21CBP4** **21CBP4A** **21CBP4A/ 21CBP4/ 21CMP4** **21CBP4B** **21CMP4** **21CVP4** **21CWP4** **21DNP4** **21FLP4**
21CQP4	**21CQP4**
21DEP4A	**21CZP4** **21DAP4** **21DEP4** **21DEP4A** **21DEP4A/ 21DEP4/ 21CZP4**
21DFP4	**21CEP4** **21CEP4A** **21DFP4**
21DHP4	**21DHP4**
21DLP4	**21DLP4** **21DQP4**
21DSP4	**21CXP4** **21DSP4**
21EP4B	21EP4 21EP4A **21EP4B**
21EQP4	**21EMP4** **21EQP4**
21EYP4	**21EYP4**
21FAP4	**21DMP4** **21ESP4** **21FAP4**
21FDP4	**21EAP4** **21FDP4**
21FP4C	21FP4 21FP4A **21FP4C**
21MP4	21MP4
21WP4A	21WP4 **21WP4A**
21XP4A	21ASP4 21AYP4 21XP4 **21XP4A**
21YP4A	21AFP4 21YP4 **21YP4A**
21ZP4B	21ZP4 21ZP4A **21ZP4B**
23AFP4	**23AFP4**
23AHP4	**23AHP4**
23ALP4	**23ALP4**
23ASP4	**23ASP4**
23AVP4	**23AVP4**
23BDP4	**23BDP4**

Bold-Face Type indicates an Aluminized Tube.

RCA PICTURE TUBES & THE TYPES THEY REPLACE

SILVERAMA TYPES (cont'd)

RCA TYPE	REPLACES
23BJP4	**23AWP4** **23BJP4**
23BKP4	**23ANP4** **23BKP4**
23BLP4	**23BLP4**
23BQP4	**23BQP4**
23BTP4	**23BTP4**
23CBP4	**23CBP4**
23CP4	**23CP4** **23GP4** **23HP4**
23DAP4	**23DAP4**
23EP4	**23EP4**
23FP4	**23FP4**
23MP4	**23MP4** **23WP4**
23UP4	**23UP4**
23YP4	**23XP4** **23YP4**
24AEP4	**24AEP4** **24ANP4** 24DP4 **24DP4A** **24DP4A/** (Cont'd)

RCA TYPE	REPLACES
24AEP4 (Cont'd)	**24YP4** **24YP4** **24ZP4**
24AHP4	**24AHP4** **24ALP4**
24ATP4	**24ATP4**
24AUP4	**24AUP4**
24BAP4	**24BAP4**
24CP4A	**24ADP4** **24ADP4/** **24VP4A/** **24CP4A/** **24TP4** 24CP4 **24CP4A** 24QP4 **24TP4** 24VP4 **24VP4A** 24XP4
27MP4	**27MP4**
27RP4	**27EP4** 27GP4 27NP4 **27RP4**
27VP4	**27VP4**
27XP4	**27XP4**
27ZP4	**27ZP4**

COLORAMA TYPES

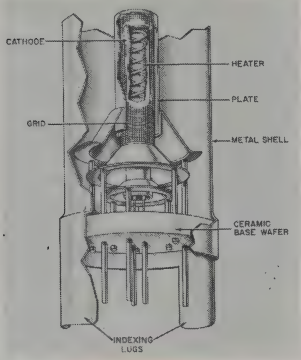
RCA TYPE	REPLACES
15GP22	**15GP22**
21AXP22A	**21AXP22** **21AXP22A** **21AX22A/** **21AXP22**

RCA TYPE	REPLACES
21CYP22A	**21CYP22** **21CYP22A**
21FBP22	**21FBP22**
21FJP22	**21FJP22**
21FKP22	**21FKP22**

Bold-Face Type indicates an Aluminized Tube.

NUVISTOR TUBES

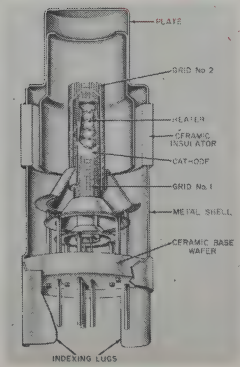
All ceramic-and-metal construction for critical military and industrial applications



Cutaway illustration of a nuvistor triode

Double-ended nuvistor triode

Nuvistor triode



Cutaway illustration of a nuvistor tetrode

Nuvistor tetrode

NUVISTOR TUBES

All ceramic-and-metal construction for critical military and industrial applications

Type	Name	Description All nuvistor types provided with two peripheral indexing lugs.	Special Tests and Controls							Life Test				Heater		Maximum Dimensions Inches	
			Shock	Fatigue	Variable-Frequency Vibration	Low-Pressure Voltage Breakdown (High Altitude)	Heater Cycling	Intermittent Shorts	Interelectrode Leakage	Early-Hour Stability	100-Hour Performance	1000-Hour Performance	1000-Hour Standby Performance	Volts	Amps.	Lgth.	Diam
7586	**Medium-Mu Triode** General-Purpose Type	Features high-gain low-noise in amplifier service Excellent stability as an oscillator over a wide range of frequencies For critical applications in equipment such as: Communications Control and instrumentation Medical electronics TV cameras Test and measurement instruments Meets military specification Mil-E-1/1397 SigC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6.3	0.135	0.800	0.440
7587	**Sharp-Cutoff Tetrode**	Especially suited for rf-if, video amplifier, and mixer service For critical applications in equipment such as: Communications Control and instrumentation															

	General-Purpose Double-Ended Type	Medical electronics TV cameras Test and measurement instruments Meets military specification Mil-E-1/1434 SigC	√	√	√	√	√	√	√	√	√	√	—	6.3	0.15	1.050	0.440
7895	**High-Mu Triode** General-Purpose Type	Features high-gain low-noise in amplifier service Excellent stability as an oscillator over a wide range of frequencies Provides reliable performance in on-off control applications involving long periods of standby operation Meets military specification Mil-E-1/1433 SigC	√	√	√	√	√	√	√	√	√	√	√	6.3	0.135	0.800	0.440
8056	**Medium-Mu Triode** Low-Voltage Type	Designed to operate from a plate voltage supply of 12 volts thru 50 volts Especially applicable for use as a low-noise tube in the following circuits: RF and if amplifier Multivibrator Cathode-follower Useful in special applications requiring a high input impedance and capable of operating at low-voltage supplies	√	√	√	√	√	√	√	√	√	√	√	6.3	0.135	0.800	0.440
8058	**High-Mu Triode** Double-Ended Type	Especially useful in cathode-drive amplifier service at frequencies up to 1200Mc Has exceptional low-noise to signal ratio with the following Noise Factor in cathode-drive rf amplifier service 6.5 db at 450Mc 9.5 db at 700Mc 12.2 db at 1200Mc Excellent stability as an oscillator over a wide range of frequencies	√	—	√	√	√	√	√	—	—	—	√	6.3	0.135	0.985	0.440

All ceramic-and-metal construction for critical military and industrial applications

Type	Name	Maximum Ratings, Absolute-Maximum Values								Characteristics—Class A Amplifier								
		Plate Supply Volts	Plate Volts	Grid-No. 2 (Screen Grid) Supply Volts	Grid-No. 2 Volts	Plate Dissipation Watts	Grid-No. 2 Input Watt	Grid-No. 1 Current Ma	Cathode Current Ma	Max. Grid-No. 1 Circuit Resistance§ Megohms	Plate Supply Volts	Plate Volts	Grid-No. 2 Supply Volts	Grid-No. 1 Supply Volts	Cathode Resistance Ohms	Grid-No. 2 Current Ma	Plate Current Ma	Plate Resistance (Approx.) Ohms	Amplification Factor	Transconductance Micromhos
7586	Medium-Mu Triode General-Purpose Type	330	110	—	—	1	—	2	15	1	75	—	—	0	100	—	10.5	3000	35	11500
										0.5	—	40	—	0	—	—	6.8	3200	35	11000
										0.5	—	26.5	—	0	—	—	2.8	4400	31	7000
7587	Sharp-Cutoff Tetrode																			

		Max. Grid-No. 2 Supply Volts, 330					Max. Grid-No. 2 Volts, 110											
							Grid-No. 2 Supply Volts, 50								Grid-No. 2 Ma., 2.7			
	General-Purpose Double-Ended Type	330	250	330	110	2.2	0.2	2	20	0.5#	125	—	50	—	68	2.7	10	200000	—	10000
7895	**High-Mu Triode** General-Purpose Type	330	110	—	—	1	—	2	15	1* 0.5#	110	—	—	0	150	—	7	6800	64	9400
8056	**Medium-Mu Triode** Low-Voltage Type	—	50	—	—	0.45	—	2	15	10* 10#	24	—	—	0	100	—	8.7	1530	11.5	7500
8058	**High-Mu Triode** Double-Ended Type	330	150	—	—	1.5	—	—	15	1* 0.5#	110	—	—	0	47	—	10	5600	70	12400

§For operation at metal shell temperatures up to 150°C.
*For cathode-bias operation.
#For fixed-bias operation.

Type	Name	Cathode Type and Rating		Maximum Dimensions		Maximum Ratings	Characteristics Class A1 Amplifier									
		Volts	Amp.	L.	Diam.		Plate Supply Volts	Grid Bias Volts	Grid No. 2 Supply Volts	Grid No. 2 Current Ma	Plate Current Ma	AC Plate Resistance Megohms	Transconductance μmhos	Amplification Factor	Effective Lead Resistance Ohms	Power Output Watts
5BC3	Full-Wave Vacuum Rectifier	5*	3	4.14″	1.562″	With Capacitive-Input Filter: Max. DC Output Ma, 300 for AC Volts per Plate, 500; Total Effective Supply Impedance per Plate, 82 ohms; Max. Peak Inverse Plate Volts, 1700; Max. Peak Plate Ma per Plate, 1000										
						With Inductive Input Filter: Max. DC Output Ma, 300 for AC Volts per Plate, 600 and Input Choke 10 henries; Max. Peak Plate Ma per Plate, 1000; Max. Peak Inverse Plate Volts, 1700										
6AY3 12AY3 17AY3	Half-Wave Vacuum Rectifiers	6.3 12.6† 16.8†	1.2 0.6 0.45	3.84″	1.188″	Max. Peak Inverse Plate Volts, 5000 Max. Peak Plate Ma, 1100 Max. DC Plate Ma, 175										Max. Peak Heater-Cathode Volts, −5000 (DC Component Not to Exceed 900 Volts) Max. Peak Heater-Cathode Volts, +300 (DC Component Not to Exceed 100 Volts)
6BA3	Half-Wave Vacuum Rectifier	6.3	1.2	3.08″	1.188″	Max. Peak Inverse Plate Volts, 5000 Max. Peak Plate Ma, 1000 Max. DC Plate Ma, 165										Max. Peak Heater-Cathode Volts, −5000 (DC Component Not to Exceed 900 Volts) Max. Peak Heater-Cathode Volts, +300 (DC Component Not to Exceed 100 Volts)
6BH3 17BH3 22BH3	Half-Wave Vacuum Rectifiers	6.3 17† 22.4†	1.6 0.6 0.45	3.84″	1.188″	Max. Peak Inverse Plate Volts, 5500 Max. Peak Plate Ma, 1100 Max. DC Plate Ma, 180										Max. Peak Heater-Cathode Volts, −5500 (DC Component Not to Exceed 900 Volts) Max. Peak Heater-Cathode Volts, +300 (DC Component Not to Exceed 100 Volts)
6DW4	Half-Wave Vacuum Rectifier	6.3	1.2	3.84″	1.188″	Max. Peak Inverse Inverse Plate Volts, 4500 Max. Peak Plate Ma, 1300 Max. DC Plate Ma, 250										Max. Peak Heater-Cathode Volts, −4500 (DC Component Not to Exceed 900 Volts Max.) Max. Peak Heater-Cathode Volts, +300 (DC Component Not to Exceed 100 Volts Max.)

6GF7 10GF7 13GF7	Dual Triodes Unit No. 1 High-Mu Triode Unit No. 2 Low-Mu Triode	6.3 9.7† 13†	0.985 0.6 0.45	3.00″	1.188″	Vertical Deflection Oscillator (Unit 1): Max. Peak Neg.-Pulse Grid Volts, 400 Max. DC Plate Volts, 330 Max. Peak Cathode Ma, 77 Max. Plate Dissipation, 1.5 Watts	250	−3	—	—	1.4	.04	1600	64	—	—
						Vertical Deflection Amplifier (Unit 2): Max. Peak Positive-Pulse Plate Volts, 1500 Max. Peak Negative-Pulse Grid Volts, 250 Max. Peak Cathode Ma, 175 Max. Plate Dissipation, 11 Watts Max. DC Plate Volts, 330	150	−20	—	—	50	750 ohms	7200	5.4	—	—
6GJ5 12GJ5 17GJ5	Beam Power Tubes (Double-Ended)	6.3 12.6† 16.8†	1.2 0.6 0.45	3.55″	1.562″	Max. DC Supply Volts (DC + Boost), 770 Max. Peak Positive-Pulse Plate Volts, 6500 Max. Peak Negative-Pulse Plate Volts, 1500 Max. Peak Cathode Ma, 550 Max. Plate Dissipation, 17.5 Watts	250	−22.5	150	2.1	70	.015	7100	—	—	—
6GT5 12GT5 17GT5	Beam Power Tubes	6.3 12.6† 16.8†	1.2 0.6 0.45	3.54″	1.562″	Max. DC Supply Volts (DC + Boost), 770 Max. Peak Positive-Pulse Plate Volts, 6500 Max. Peak Negative-Pulse Plate Volts, 1500 Max. Peak Cathode Ma, 550 Max. Plate Dissipation, 17.5 Watts	250	−22.5	150	2.1	70	.015	7100	—	—	—
7868	Power Pentode	6.3	0.8	3.24″	1.188″	Max. Plate Volts, 550 Max. Grid No. 2 Volts, 440 Max. Plate Dissipation, 19 Watts Max. DC Cathode Ma, 90	300	−10	300	8	60	.029	10200	—	3000	11

*Filamentary type.
†Heater has controlled warm-up time for series-string operation.

RCA QUICK-SELECTION GUIDE
To Tubes for Communications, Industry, and Military Uses
VACUUM POWER TUBES

Type	Heater or Filament Volts	Maximum Dimensions Inches		Amplification Factor	Max. Plate Ratings▲	
		Length	Diam.		DC Volts	Dissipation Watts
TRIODES (AIR-COOLED)						
2C4B	6.3	2 9/16	1 5/16	36	500	5
2C40A	6.3	2 9/16	1 5/16	35	500	6.5
2C43	6.3	2 11/16	1 5/16	48	500	10
3C33	12.6	3 11/16	2 3/8	11 ♀	±2000□	15 ♀
801A	7.5	5 3/8	2 1/16	8	600	20
805	10	8 1/2	2 5/16	variable	1500	125
809	6.3	6 9/16	2 7/16	50	1000†	30†
810	10	8 3/4	2 1/4 *	36	2500†	175†
811A	6.3	6 15/32	2 7/16	160	1500†	65†
812A	6.3	6 15/32	2 7/16	29	1500†	65†
826	7.5	3 11/16	2 3/8	31	1000†	55†
830B	10	6 11/16	2 1/16	25	1000	60
833A	10	8 13/16	4 19/32	35	3300†	350†
834	7.5	6 7/8	2 11/16	10.5	1250	50
838	10	7 7/8	2 5/16	variable	1250	100
845	10	7 7/8	2 5/16	5.3	1250	100
1626	12.6	4 1/8	1 9/16	5	250	5
5556	4.5	4 1/2	1 5/8	8.5	350	10
8000	10	8 3/4	2 1/4 *	16.5	2500†	175†
8005	10	6 11/16	2 7/16	20	1500†	85†
TRIODES (WATER-COOLED)						
9C21	19.5	24 1/2	9 1/2	40	17000	40000
207	22	20 1/4 ♦	6 15/32 *	20	15000	10000
880	12.6	11 1/2	7	20	10500	20000
889A	11	10 11/16	3 3/8	21	8500	5000
891	11#	20 7/8	6 15/32 *	8.5	12000	6000
892	11#	20 7/8	6 15/32 *	50	15000	10000
5770	11	24 1/2	9 1/2	40	17000	50000
5771	7.5	11 5/16	7	20	12500	22500

†For Intermittent Commercial and Amateur Service.

▲Absolute values for Continuous Commercial Service, unless otherwise specified. ♀ Per Unit. *Maximum Radius. □Peak Value.

RCA Quick Selection Guide

VACUUM POWER TUBES

Type	Heater or Filament Volts	Maximum Dimensions Inches		Amplification Factor	Max. Plate Ratings▲	
		Length	Diam.		DC Volts	Dissipation Watts
SUPER-POWER TRIODES (WATER-COOLED)						
2054	5-Megawatt output, plate-pulsed type.					
4612	See Technical Bulletin■.					
7835	10-Megawatt output, plate-pulsed type.					
SUPER-POWER SHIELDED-GRID BEAM TRIODES (WATER-COOLED)						
4602	7.3 to 7.8	38.4	10.06	60	17500	40000
4603	1.5-Megawatt output, plate-pulsed type to 50 Mc.					
6949	7.3 to 7.8	40	10.06	60	17500	40000
6950/2039	1.5-Megawatt output, plate-pulsed type to 200 Mc.					
TRIODES (FORCED-AIR-COOLED)						
2C39A	6.3	2¾	$1\frac{17}{64}$	100	1000	100
2C39WA♦	Military version of 2C39-A					
9C22	19.5	25	17	41	17000	20000
9C25	6	$17\frac{3}{8}$	$14\frac{1}{4}$	32	11500	17500
833A	10	$8\frac{13}{16}$	$4\frac{19}{32}$	35	4000	450
889RA	11	$11\frac{1}{8}$	$5\frac{15}{32}$ *	21	8500	5000
891R	11#	22	$6\frac{15}{32}$ *	8.5	10000	4000
892R	11#	22	$6\frac{15}{32}$ *	50	12500	4000
5588	6.3	$3\frac{13}{32}$	1.76	16	1000	200
5671	11	25	8.5*	40	15000	25000
5713	3.3	$4\frac{1}{8}$	$2\frac{1}{16}$	25	1500	250
5762/7C24	12.6	$7\frac{1}{8}$♦	$4\frac{11}{16}$	29	6200	3000
5762A	12.6	$7\frac{1}{8}$♦	$4\frac{11}{16}$	29	6200	4000
5786	11	$9\frac{5}{8}$	2.895	32	3000	600
5946	6.3	$3\frac{13}{32}$	1.76	25	7500¶	250
6161	6.3	$3\frac{13}{32}$	1.76	25	1600	250
6897	6.3	$2\frac{3}{4}$	$1\frac{17}{64}$	95	1000	70
TETRODES (AIR-COOLED)						
860	10	$8\frac{3}{4}$♦	$4\frac{1}{4}$ *	1100∅	3000	100
861	11	$17\frac{7}{32}$	$6\frac{5}{8}$ *	2400∅	3500	400

*Maximum Radius. #Per Section.
▲Absolute values for Continuous Commercial Service, unless otherwise specified.
¶Peak Positive-Pulse Plate-Supply Volts.
♦Excluding Flexible Leads.
∅Transconductance.
♣For severe shock and vibration.
■Rated for Linear Accelerator Service.

RCA Quick Selection Guide
VACUUM POWER TUBES

Type	Heater or Filament Volts	Maximum Dimensions Inches		Transconductance*	Max. Plate Ratings▲	
		Length	Diam.	Micromhos	DC Volts	Dissipation Watts
TETRODES (WATER-COOLED)						
8D21	3.2	12 29/32	5 3/4	5§ ♀	6000	6000
BEAM POWER TUBES (FORCED-AIR-COOLED)						
4-65A	6	4 3/8	2 3/8	5 §	3000	65
4-125A/4D21	5	5 11/16	2 7/8	5.9§	3000	125
4-250A/5D22	5	6 3/8	3 9/16	5.1§	4000	250
4-400A	5	6 3/8	3 9/16	5.1§	4000	400
4-1000A	7.5	9 5/8	5 1/4	7 §	6000	1000
4CX250B	See 7203/4CX250B					
4CX250F	See 7204/4CX250F					
4X150A	See 7034/4X150A					
4X150D	See 7035/4X150D					
4X500A	5	4 3/4	2 5/8	6.2§	4000	500
827R	7.5	6 3/8♦	4 11/16	16 §	3500	800
4600A	5.5	3.405	3.760	17 §	3500	1750
4614	6.3	2.40	2.09	13 §	2500	600
6155/4-125A	5	5 3/32	2 7/16	6.2§	3000	125
6156/4-250A	5	5 29/32	3 7/16	5.1§	4000	250
6166	5	11.63	6.38	10 §	6900	10000
6166A/7007	5	11.5	6.38	10 §	7500	10000
6181	120*	7 1/4	5 1/32	7 §	2000	2000
6816	6.3	1.955	1.265	18 §	1000	115
6884	Same as 6816 but has 26.5-volt heater.					
7034/4X150A	6	2 15/32	1.640	5 §	• •	250
7035/4X150D	Same as 7034/4X150A but has 26.5-volt heater.					
7094	6.3	5	2.56	7 §	1500†	125†

*Maximum

▲Absolute values for Continuous Commercial Service.

†For Intermittent Commercial and Amateur Service.

§Grid-Screen Mu-Factor.

• • Max. DC plate volts, 2000 for frequencies up to 150 mc; max. DC plate volts, 1250 for frequencies of 150 mc to 500 mc.

♦Excluding flexible leads.

♀Per Unit.

RCA Quick Selection Guide

VACUUM POWER TUBES

BEAM POWER TUBES (FORCED-AIR-COOLED) (cont'd)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Amplification Factor	Max. Plate Ratings▲	
		Length	Diam.		DC Volts	Dissipation Watts
7203/4CX250B	6	2.464	1.640	5.2§	2000	250
7204/4CX250F	Same as 7203/4CX250B but has 26.5-volt heater.					
7213	5.5	3.34	3.75	17§	2500	1500
7214	See Technical Bulletin.■					
7457	See Technical Bulletin.♦					
7580	See Technical Bulletin.					
7649	See Technical Bulletin.■					
7650	6.3	2.40	2.07	13§	2500	600
7651	See Technical Bulletin.■					
8121	13.5	2.20	1.44	12	2200	150
8122	13.5	2.26	1.64	12	2200	400

BEAM POWER TUBES (CONDUCTION-COOLED)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Amplification Factor §	Max. Plate Ratings▲	
		Length	Diam.		DC Volts	Dissipation Watts
7801	12.6	1.195	0.740	30	750	25
7842♦	6.3	1.955	1.119	18	1000	115
7843	26.5	1.955	1.119	18	1000	115
7844	6.3	1.955	1.119	18	1000	115
7870	6.3	1.195	0.740	30	750	25
8072	12 to 15	2.26	1.44	11	2200	100

BEAM POWER TUBES AND PENTODES (AIR-COOLED)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Transconductance	Max. Plate Ratings▲	
		Length	Diam.	Micromhos	DC Volts	Dissipation Watts
2E24	6.3	3 21/32	1 5/16	7.5§	600†	13.5†
2E26	6.3	3 21/32	1 5/16	6.5§	600†	13.5†
3E29∅	Similar to type 829 B but for pulsed operation.					
4E27/8001	5	6 3/16	2 11/16	2800	4000	75•
4E27A/5-125B	5	6 3/16	2 3/4	2150	4000	125
802	6.3	5 1/4	2 1/16	2250	600†	13†
803	10	9 1/4	2 9/16	4000	2000	125
804	7.5	7 11/16	2 1/16	3250	1500†	50†
807	6.3	5 3/4	2 1/16	6000	750†	30†
813	10	7 1/2	2 9/16	3750	2250†	125†
814	10	7 11/16	2 1/16	3300	1500†	65†
815∅	6.3/12.6	4 3/16	2 3/8	4000•	500†	25†

▲Absolute values for Continuous Commercial Service.
†For Intermittent Commercial and Amateur Service.
§Grid-Screen Mu-Factor. ■Pulse Type.
∅Twin Unit Type. ♦For severe shock and vibration.
•Per section.

RCA Quick Selection Guide

VACUUM POWER TUBES

BEAM POWER TUBES AND PENTODES (AIR-COOLED) (cont'd)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Trans-conductance	Max. Plate Ratings▲	
		Length	Diam.	Micro-mhos	DC Volts	Dissipation Watts
828	10	7 11/16	2 1/16	2700	1500†	80†
829B∅	6.3/12.6	4 5/16	2 3/8	8500 •	750†	40†
832A∅	6.3/12.6	3 5/16	2 3/8	3500 •	750†	20†
837	12.6	5 3/4	2 1/16	3400	500	12
1624	2.5	5 3/4	2 1/16	4000	600	25
1625	12.6	5 3/4	2 1/16	6000	750†	30†
4604	6.3	3 13/16	1 21/32	6000	750	25
5618	3.0/6.0	2 5/8	3/4	3600	300†	5†
5763	6	2 5/8	7/8	7000	350†	17†
6146	6.3	3 13/16	1 23/32	4.5§	750†	25†
6159	Same as 6146 but has 26.5-volt heater					
6293	See Technical Bulletin.□					
6417	Same as 5763 but has 12.6-volt heater.					
6524∅	6.3	3 9/16	1 11/16	4500 •	600†	25†
6850∅	Same as 6524 but has 12.6-volt heater.					
6883	Same as 6146 but has 12.6-volt heater.					
6893	Same as 2E26 but has 12.6-volt heater.					
6939∅	6.3/12.6	2 5/8	0.875	10500 •	250△†	7.5△†
7054	13.5	2 5/8	0.875	11500	300	5
7060*	13.5	2 3/16	0.875	7000	300	2.75
7212	6.3	3 13/16	1 21/32	7000	750†	25†
7357	Same as 7212 but has 26.5-volt heater.					
7358	See Technical Bulletin.□					
7551	13.5	2 5/8	7/8	5300	300	12†
7558	6.3	2 5/8	7/8	5300	300	12†

SUPER-POWER BEAM POWER TUBES (LIQUID-COOLED)

2029	1.35 •	8.22	11.38	8§	9000	30000
2041	300-kw peak output, long-pulse type.					
4605V2	2-Megawatt peak output, plate-pulsed type.					
6448	1.35 •	7.97	11.38	8§	7000	26000
6952¶	2-Megawatt peak output, plate-pulsed type.					

SUPER-POWER BEAM POWER TUBE (WATER-COOLED)

6806	1.35 •	7.97	11.38	8§	9000	35000

▲Absolute values for Continuous Commercial Service.
†For Intermittent Commercial and Amateur Service.
§Grid-Screen Mu-Factor.
∅Twin Unit Type. ¶Gov't end use only.
• Per section.
□Pulse Type.
*Includes a triode unit.
△Push-pull operation.

RCA Quick Selection Guide

GLOW-DISCHARGE (COLD-CATHODE) TUBES

Type	Maximum Dimensions Inches		Operating Volts	Operating Current DC Ma.	
	Length	Diam.		Min.	Max.
VOLTAGE-REGULATOR TYPES					
0A2	2⅝	¾	151	5	30
0A3	4⅛	1 9/16	75	5	40
0B2	2⅝	¾	108	5	30
0C2	2⅝	¾	75	5	30
0C3	4⅛	1 9/16	108	5	40
0D3	4⅛	1 9/16	150	5	40
991	1 9/16	⅝	59	0.4	2
5651*	2⅛	¾	87	1.5	3.5
6073	2⅝	¾	151	5	30
6073/0A2	2⅝	¾	151	5	30
6074	2⅝	¾	108	5	30
6074/0B2	2⅝	¾	108	5	30

Type	Dimensions Inches		Max. Ratings		
	Length	Diam.	Peak Anode Volts	Peak Cathode Ma.	Av. Cathode Ma.
RELAY TYPES					
0A4G	4⅛	1 9/16	225	100	25
1C21	2⅝	1 5/16	180	100	25
5823	2⅛	¾	200	100	25

RECTIFIERS

Type	Heater or Filament Volts	Maximum Dimensions Inches		Max. Plate or Anode Ratings	
		Length	Diam.	Peak Inv. Volts	Amp. Av.
VACUUM TYPES					
2X2A	2.5	4 17/32	1 9/16	12500†	0.0075†#
5R4GY□	5	5 5/16	2 1/16	2400	0.175†
5R4GYB□	5	4¼	1 9/16	2650△	0.250△
579B	2.5	7 7/16	2 1/16	20000	0.025
836	2.5	6 9/16	2 7/16	5000	0.25
1616	2.5	6 13/16	2 1/16	6000	0.13
5825	1.6	5 27/32	2 1/16	60000	0.002
8013A	2.5	6 1/16	2 1/16	40000	0.020
8020	5	8	2 5/16	40000	0.100

*Voltage reference type.
#Per plate.
†Design center values.
□Full-Wave Type.
△Abs. Max. values

RCA Quick Selection Guide

RECTIFIERS *(cont'd)*

Type	Heater or Filament Volts	Maximum Dimensions Inches		Max. Plate or Anode Ratings	
		Length	Diam.	Peak Inv. Volts	Amp. Av.
MERCURY-VAPOR TYPES					
83□	5	5 3/8	2 1/16	1550†	0.225†
575A	5	11 1/8	3 1/8	15000	1.5
604/7014□	2.5	7 1/2	2 1/16	900	2.5
615/7018	2.5	6 3/8	2 1/16	2000	2.5
635/7019	2.5	9 1/2	2 1/16	1000	6.4
635L/7020	2.5	9 1/2	2 3/16	1000	6.4
673	5	11 7/16	3 1/8	15000	1.5
816	2.5	4 11/16	1 9/16	7500	0.125
857B	5	19 7/8♦	7 1/8	22000	10
866A	2.5	6 9/16	2 7/16	10000	0.25
869B	5	14 7/16	5 1/8	20000	2.5
872A	5	8 1/2	2 5/16	10000	1.25
5558	5	7	3	5000	2.5
5561	5	11 1/4	3 13/16	3000	6.4
6894	5	10 17/32	2 5/8	20000	1.8
6895	5	10 13/32	2 5/8	20000	1.8
8008	5	8 3/4	2 5/16	10000	1.25
GAS TYPES					
3B25	2.5	6 5/16	2 1/16	4500	0.5
3B28	2.5	6 5/32	2 1/16	10000	0.25

THYRATRONS

TRIODES					
C1K/6014	2.5	4 1/4	1 9/16	1250	1.0
C3J/5632	2.5	6	1 9/16	1250	2.5
C3JA/5684	2.5	6	1 9/16	1250	2.5
C3JL	2.5	6 3/4	2 3/16	1250	2.5
C6J/5C21	2.5	9 1/2	2 1/32	1250	6.4
C6JA/5685	2.5	9 1/2	2 1/32	1250	6.4
C16J/5665	2.5	10 1/2♦	2 11/16	1250	18
3C23	2.5	6 1/8	2 1/16	1250	1.5
627	2.5	7	2 7/16	2500	0.64
629	2.5	4 1/4	1 9/16	350	0.04
676	5	11 3/4	3 13/16	2500	6.4
677	5	11 3/4	3 13/16	10000	4.0
710/6011	2.5	6 1/4	1 5/8	1500	2.5
714/7021	2.5	6 1/8	2 1/16	1250	1.0
716/6855	2.5	4 3/8	1 9/16	1250	1.0
760/6858	2.5	9 1/2	2 9/16	1500	6.4
884	6.3	4 1/8	1 9/16	350△	0.075⊕
885	2.5	4 3/16	1 9/16	350△	0.075⊕
5557	2.5	6 1/8	2 1/16	5000	0.5

□Full-Wave Type.
*Maximum Radius.
†Design Center Values.
♦Excluding Flexible Leads.
△Forward Peak Anode Volts.
⊕Average Cathode Amp.

RCA Quick Selection Guide

THYRATRONS *(cont'd)*

Type	Heater or Filament	Maximum Dimensions Inches		Max. Plate or Anode Ratings	
		Length	Diam.	Peak Inv. Volts	Av. Amp.
TRIODES (cont'd)					
5559	5	7¼	3	1000	2.5
5563A	5	$10^{17}/_{32}$	2⅝	20000	1.6
6130/3C45	6.3	$5^{3}/_{16}$	$1^{9}/_{16}$	3000	0.045
TETRODES					
2D21	6.3	2⅛	¾	1300	0.1⊕
3D22A	6.3	$4^{5}/_{8}$	2¾	1500	0.8
105	5	11¼ #	2½ *	2500	6.4
172	5	$10^{27}/_{32}$	2⅝ *	2000	6.4
502A	6.3	2⅝	$1^{5}/_{16}$	1300	0.1⊕
632B	5.0	$8^{5}/_{16}$	1¾ *	1500	2.5
672A	5	8⅛	$2^{5}/_{16}$	2500	3.2
2050	6.3	4⅛	$1^{9}/_{16}$	1300	0.1⊕
2050A	6.3	$3^{1}/_{16}$	$1^{9}/_{32}$	1300	0.1⊕
5560	5	$7^{15}/_{16}$	2¼ *	1000	2.5
5696	6.3	1¾	¾	500	0.025⊕
5727	6.3	2⅛	¾	1300	0.1⊕
6012	6.3	4¼	$1^{23}/_{32}$	1300	0.5⊕

IGNITRONS

Type	Maximum Dimensions Inches			Max. Anode Ratings††		Max. Anode Rating*†	
	Size	Approx. Length	Radius	KVA Demand	Corresponding Av. Anode Amp.	Peak Inv. Volts	Av. Amp.
1051A	(B)	13#	2⅞	600	30.2	1500¶	18¶
1052A	(C)	15¼#	3⅜	1200	75.6	500	100
5550	(A)	10#	1⅜	300	12.1	—	—
5551A	(B)	13½#	2⅞	600	30.2	1500¶	18¶
5552A	(C)	15¼#	3⅜	1200	75.6	—	—
5553B	(D)	20#	$4^{11}/_{16}$	2400	192.	1500¶	112¶
5555		18½#	$4^{9}/_{16}$	—	—	2100	150

□Full-Wave Type.
*Maximum Radius.
†Design Center Values.
#Excluding Flexible Leads.
△Forward Peak Anode Volts.
⊕Average Cathode Amp.
¶For frequency-changer resistance-welding service.

RCA Quick Selection Guide

PHOTOTUBES

Type	Maximum Dimensions Inches		Max. Anode-Supply Volts	Luminous Sensitivity Microamp. Per Lumen	Spectral Response
	Length	Diam.			
GAS TYPES					
1P29	4 1/8	1 1/8	100	40	S-3
1P37	4 1/8	1 1/8	100	135	S-4
1P40	Same as 930 except for non-hygroscopic base.				
1P41	2 1/16	13/16	90	90	S-1
868	4 1/8	1 1/8	100	90	S-1
918	4 1/8	1 1/8	90	150	S-1
920¶	4	13/16	90	100	S-1
921	1 23/32	0.890	90	135	S-1
923	3 9/16	13/16	90	135	S-1
927	2 13/32	0.669	90	125	S-1
928	3 9/16	13/16	90	65	S-1
930	3 1/16	1 9/32	90	135	S-1
4409	3 3/16	1 9/32	100	135	S-4
5581	3 1/16	1 9/32	100	135	S-4
5582	1 23/32	0.890	100	120	S-4
5583	2 13/32	0.669	100	135	S-4
5584¶	4	13/16	100	120	S-4
6405/1640	4 7/16	1 1/8	90	35	S-1
6953	3 3/16	1 9/32	90	200	S-1
VACUUM TYPES					
1P39	Same as 929 except for non-hygroscopic base.				
1P42	1 13/32	1/4	180	37	S-9
917	4 7/16	1 1/8	500	20	S-1
919	4 7/16	1 1/8	500	20	S-1
922	1 11/16	0.890	500	20	S-1
925	2 5/8	1 9/32	250	20	S-1
926	1 23/32	0.890	500	6.5	S-3
929	3 1/16	1 9/32	250	45	S-4
934	2 13/32	0.669	250	30	S-4
935	4 1/4	1 9/32	250	35	S-5
5652*	2 7/8	1 9/32	250	45	S-4
5653	3 1/16	1 9/32	250	45	S-4
6570	4 7/16	1 1/8	500	30	S-1
7043	3 5/16	1 9/32	250	45	S-4

*Maximum Radius. ††For welder-control service.
*†For power rectification.
¶For frequency-changer resistance-welding service.
#Excluding Flexible Leads. ♂Average Cathode Amp.

RCA Quick Selection Guide

MULTIPLIER PHOTOTUBES

Type	Maximum Dimensions Inches		Max. Anode-Supply Volts	Luminous Sensitivity Amp/Lumen	Spectral Response
	Length	Diam.			
1P21	3 11/16	1 5/16	1250	80 •	S-4
1P22	3 11/16	1 5/16	1250	1.0 •	S-8
1P28	3 11/16	1 5/16	1250	50 •	S-5
931-A	3 11/16	1 5/16	1250	24 •	S-4
2020	5 13/16	2 5/16	1500	6 • •	S-11
4438	3.91	1.56	1250	27 •	S-11
4439	3.91	1.56	1250	27 •	S-11
4440	4.12	1.56	1250	27 •	S-11
4441	3.18	1.56	1250	27 •	S-11
5819	5 13/16	2 5/16	1250	25 •	S-11
6199	4.57	1.56	1250	27 •	S-11
6217	5 13/16	2 5/16	1250	24 •	S-10
6328▲	3.12	1.31	1250	35 •	S-4
6342A	5.81	2.31	1500	14 • •	S-11
6472▲	2 3/4 !	1 3/16	1250	35 •	S-4
6655A	5 13/16	2 5/16	1250	50 •	S-11
6810A	7 1/2	2 3/8	2400	875 ♦	S-11
6903	6 9/16	2 5/16	1250	24 •	S-13
7029	3.75	1.56	1250	40 •	S-17
7046	11 1/8	5 1/4	3400	180 #	□
7102	4.57	1.56	1500	4.5 • •	S-1
7117▲	3.12	1.31	1250	35 •	S-4
7200	5.69	1.31	1250	40 •	S-19
7264	7.5	2.38	2400	875 ♦	S-11
7265	7.5	2.38	3000	1400 §§	S-20
7326	6.78	2.38	2400	22.5§	S-20
7746	6.12	2.31	2500	1200 ♦	S-11
7764	2.75	.78	1500	0.3†	S-11
7767	4	.78	1500	7.5 • •	S-11
7850	6.31	2.06	2600	6000 ✠	S-11
8053	5.81	2.31	2000	120 ♦	S-11
8054	6.31	3.06	2000	120 ♦	S-11
8055	7.69	5.31	2000	120 ♦	S-11

¶Twin type. *Twin type; each unit has a composite anode-cathode.
▲For headlight dimming service. !Excluding flexible leads. • With Supply Volts=1000. • • With Supply Volts=1250. ♦With Supply Volts=2000. #With Supply Volts=2800. □Extended S-11, with response 2500 to 6500 Angstroms. §§With Supply Volts=2400. §With Supply Volts=1800. †With Supply Volts=1200. ✠With Supply Volts=2300.

RCA Quick Selection Guide

PHOTOCONDUCTIVE CELLS

Type	Min. Sensitive Area sq. in.	Characteristics at 25° C.		Maximum Decay Current μa
		Voltage between Terminals Volts	Median Photo-Current ma	
4403	0.35	50 ac	11.5*	78
4404	0.35	50 ac	3.7*	40
4408	0.35	50 ac	2.0*	40
4423	0.048	12 dc	0.5†	10
4425	0.048	12 dc	6.0*	35
4442	0.35	50 ac	3.7*	40
6957	0.35	50 dc	4.0*	40
7163	0.35	50 ac	2.0*	40
7412	0.004	12 dc	0.11*	1
7536	0.004	12 dc	0.11*	1

†At 10 footcandles. *At 1 footcandle.

PHOTOJUNCTION CELLS

Type	Maximum Dimensions		Characteristics at 25° C.		
			Voltage between Terminals dc Volts	Illumination Sensitivity μa/fc	Maximum Dark Current μa
	Length Inches	Diameter Inches			
4420	1.10*	0.350	45	0.7	35
7467	0.875*	0.350	45	0.7	35

*Excluding flexible leads.

ELECTROSTATIC DEFLECTION TYPES

Type	Max. Overall Length Inches	Min. Screen Diam. Inches	Max. Final Electrode Volts	Volts DC/In† Deflection Factor	
				DJ_1-DJ_2††	DJ_3-DJ_4*
OSCILLOGRAPH TYPES—Medium Persistence					
1EP1	4 1/16	1 1/16	1500	210-310	240-350
2AP1-A	7 5/8	1 3/4	1000	195-265	167-225
2BP1	7 13/16	1 3/4	2500	115-155	74-100
3AP1-A	11 7/8	2 3/4	1500	61-91	59-87
3AQP1	9 3/8	2 3/4	2750	73-99	26-35
3BP1-A	10 1/4	2 3/4	2000	85-115	62-85

‡All have 6.3-v heaters except: the 3AP1-A which has 2.5-v heater
†Per KV of final electrode volts except for post-deflection accelerator types. ††Deflecting electrodes nearer the face. *Deflecting electrodes nearer the base. ◉Post-deflection accelerator type.

RCA Quick Selection Guide
ELECTROSTATIC DEFLECTION TYPES

Type	Max. Overall Length Inches	Min. Screen Diam. Inches	Max. Final Electrode Volts	Volts DC/In† Deflection Factor	
				DJ_1-DJ_2††	DJ_3-DJ_4*
OSCILLOGRAPH TYPES—Medium Persistence (cont'd)					
3JP1◉	10¼	2¾	4000	85-115	62-85
3KP1	11¾	2¾	2500	50-68	38-52
3RP1	9⅜	2¾	2500	73-99	52-70
3RP1-A	Same as type 3RP1, except has flat face.				
3WP1	11⅝	2¾	2500	41.5-50.5	28.5-35
5ABP1◉	17⅛	4 9/16	6000	26-36	18-24
5ADP1◉	16 15/16	4½	6000	26.7-33.3	20.3-25
5BP1-A	17⅛	4½	2000	35-48	32-44
5CP1-A◉	17⅛	4½	4000	39-53	33-45
5UP1	15⅛	4½	2500	28-39	23-31
7VP1	14⅞	6	4000	31-41	25-34
902-A	7⅞	1¾	600	183-277	160-235
Medium-Short Persistence:					
1EP11	Same as type 1EP1, except for phosphor.				
2BP11	Same as type 2BP1, except for phosphor.				
3KP4	Same as type 3KP1, except for phosphor.				
3KP11	Same as type 3KP1, except for phosphor.				
3WP11	Same as type 3WP1, except for phosphor.				
5ABP11◉	Same as type 5ABP1, except for phosphor.				
5CP11-A◉	Same as type 5CP1-A, except for phosphor.				
5UP11	Same as type 5UP1, except for phosphor.				
Short Persistence:					
5FP15-A	11½	4¼	8000	Mag. focus & deflec.	
Medium-Long Persistence:					
1EP2	Same as type 1EP1, except for phosphor.				
3WP2	Same as 3WP1, except for phosphor.				
Long Persistence:					
5CP12◉	Same as type 5CP1-A, except for phosphor.				
5FP14-A	Same as type 5FP15-A, except for phosphor.				
Very Long Persistence:					
3JP7◉	Same as 3JP1, except for phosphor.				
3KP7	Same as type 3KP1, except for phosphor.				
5ABP7◉	Same as type 5ABP1, except for phosphor.				
5AHP7	11⅜	4¼	10000	Elec. focus, mag. defl.	
5AHP7-A	Same as 5AHP7, but has aluminized screen.				

‡All have 6.3-v heaters except: the 3AP1-A which has 2.5-v heater.
†Per KV of final electrode volts except for post-deflection accelerator types. ††Deflecting electrodes nearer the face. *Deflecting electrodes nearer the base. ◉Post-deflection accelerator type.

RCA Quick Selection Guide

CATHODE-RAY TUBES‡

Type	Max. Over-all Length Inches	Min. Screen Diam. Inches	Max. Final Electrode Volts	Deflection Factor Volts DC/In†	
				DJ_1-DJ_2††	DJ_3-DJ_4*
Very Long Persistence: (cont'd)					
5CP7-A◉	Same as type 5CP1-A, except for phosphor.				
5FP7-A	11½	4¼	8000	Mag. focus & deflec.	
5UP7	Same as type 5UP1 except for phosphor.				
7BP7-A	13⅝	6	8000	Mag. focus & deflec.	
7MP7	13⅛	6	8000	Mag. focus & deflec.	
10KP7	18	9	10000	Mag. focus & deflec.	
12DP7-A	20⅛	10	10000	Mag. focus & deflec.	
16ADP7	22	14⅜	14000	Mag. focus & deflec.	

MAGNETIC DEFLECTION TYPES

Type	Max. Over-all Length Inches	Min. Screen Diam. Inches	Max. Final Electrode Volts	Max. Focusing Electrode Volts	Deflection Angle Approx. Degrees
FLYING-SPOT TYPES:					
3KP16	Same as 3KP1, except for phosphor.				
5AUP24#	12⅞	4¼	27000	6000	40
5WP15#	11 13/16	4¼	27000	6000	50
5ZP16#	14¾	4¼	27000	7000	40
TRANSCRIBER KINESCOPE:					
5WP11#	11 13/16	4¼	27000	6000	50
VIEW-FINDER KINESCOPES:					
5AYP4#	11 15/16	4¼	10000	1500	53
5FP4-A	11½	4¼	8000	§	53
PROJECTION KINESCOPES (For Theater Television):					
5AZP4#	12 9/16	4½	40000	9000	50
7NP4★#	20⅛	5x3¾	80000	20000	35
7WP4▲#	20 1/16	5x3¾	80000	20000	35
MONITOR KINESCOPES:					
7CP4	13 13/16	6½	8000	2400	57
7TP4#	13½	6	12000	2000	50
8HP4#	10¼	7 13/16**	14000	1100	90
10SP4#	17	9⅛	20000	3000	50
14BAP4	17¾	13 13/16**	22000	800	70
17DWP4	19 9/16	15 9/16**	22000	800	70

‡All have 6.3-v heaters except: the 3AP1-A which has 2.5-v heater and the 7NP4 and 7WP4 which have 6.6-v heaters. #Aluminized. ◉, †, ††, *See preceding page. *Projection-throw distance=60 ft. ▲Projection-throw distance=80 ft. §Magnetic focus. **Diagonal.

RCA Quick Selection Guide
Camera Tubes

IMAGE ORTHICONS

Type	Illumination on Tube Face Footcandles	Typical Resolution at Operating Light Level: Amplitude Response at 400 TV Lines Per cent	Typical Resolution at Operating Light Level: Limiting Resolution TV Lines	Typical Signal-to-Noise Ratio—Bandwidth 4.5 Mc Target Volts Above Cutoff: 2	Typical Signal-to-Noise Ratio—Bandwidth 4.5 Mc Target Volts Above Cutoff: 3
FOR COLOR PICKUP					
4401	0.7×10^{2}	50	625	40:1	
4415-4416	1×10^{2}	40	675	37:1	
7513	3×10^{2}	45	675	55:1	
7513/V1	3×10^{2}	45	675	55:1	
FOR BLACK-AND-WHITE PICKUP					
4401V1	1.4×10^{2}	50	625	40:1	
5820A	2×10^{2}	50	625	40:1	
7198*	1×10^{2}	—	625	30:1	
7293A	2.4×10^{2}	40	675	37:1	
7295A†	6×10^{2}	60	800	—	70:1
7389A†	9×10^{2}	60	800	—	90:1
8093A	4×10^{2}	50	675	45:1	

†4½" diameter type. *"Ruggedized" type.

VIDICONS

Type	Operating Mode	Illumination on Tube Face Footcandles	Typical Resolution at Light Level: Amplitude Response at 400 TV Lines Per cent	Typical Resolution at Light Level: Limiting Resolution TV Lines
½"-DIAMETER TYPE:				
4427	Max. Sens.	0.4	5	400
1"-DIAMETER TYPES:				
2048A*	Av. Sens.	0.5	30	750
6326	Min. Lag	100	—	750
7038	Av. Sens.	15	30	750
7262A	Av. Sens.	0.5	30	750
7263A*	Av. Sens.	0.5	30	750
7697	Av. Sens.	0.5	30	750
7735A	Av. Sens.	0.5	30	750
8134†	High Sens.	0.1	20	600
1½"-DIAMETER TYPE:				
8051	Av. Sens.	6	60	1200

*"Ruggedized" types.
†Electrostatic-focus, magnetic-deflection type.

RCA Quick Selection Guide

MONOSCOPES

Type	Maximum Dimensions		Typical Operation			
	Length Inches	Diam. Inches	Pattern Electrode Volts	Grid No. 3 Volts for Focus (Approx.)	Grid No. 2 Volts	Grid No. 1 Volts for Visual Cutoff of Monitor Raster (Approx.)
2F21	$12\frac{11}{16}$	$5\frac{1}{16}$	1000	240 to 360	1000	−10 to −70
1699	Custom-built type. Like 2F21, except pattern is individually styled to customer's requirements.					

IMAGE-CONVERTER TUBES

Type	Spectral Response	Phosphor	Average Characteristics at 25° C.			
			Supply Voltage Volts	Min. Infrared Conversion Index	Magnification Factor	Min. Cathode Resolution line-pairs mm
6032A*	S-1	P20	20	10	0.5	18
6381	S-1	P20	16	10	0.58	25
6914	S-1	P20	16	15	0.76	25
6914A*	S-1	P20	16	15	0.76	25
6929	S-1	P20	12	10	0.75	25
7404	S-21	P20	12	—	0.75	25

*Controlled for threshold visibility.

DISPLAY STORAGE TUBES

Type	Maximum Length Inches	Dimensions Diameter Inches	Writing Speed in./sec	Typical Brightness Foot-lamberts	Typical Resolution lines/in.
4412*	20.75	10.88†	30,000	200	44
6866	15.5	$5\frac{1}{16}$†	300,000	2500	50
7183	11.62	5.19†	—	1200	50
7315	13.64	5.31	3,000	2500	50
7448	13.64	5.31	300,000	2500	50

*Has integral magnetic shield.
†Excluding any mounting lugs or encapsulated leads.

RCA Quick Selection Guide

GRAPHECHON

Type	Maximum Length Inches	Dimensions Diameter Inches	Min. Number of Discernible Output Signal Levels	Resolution at 50% Response range rings/display radius
7539	26	3.4	4	150

RADECHON

6499	Useful in digital or analogue information processing systems.

MAGNETRONS

FOR PULSED-OSCILLATOR SERVICE

Type	Heater Volts	Maximum Dimensions Inches			Frequency Range KMc	Min. Peak Power Output Kw	Type of Tuning Adj
		Lgth.	Wdth.	Hght.			
4011A	13.75	7 11/16	4 3/8	6 5/32	8.75 — 9.6	215	Hand
6521	10	7 1/8	4 1/2	7 7/32	5.4 ± .02	75	None
6865A	13.75	7 11/16	6	6 5/32	8.75 — 9.6	190	Hand
7008	13.75	7 11/16	4 3/4	8 1/4	8.5 — 9.6	200	Servo
7111	13.75	7 11/16	6	6 5/32	8.5 — 9.6	200	Hand

TRAVELING-WAVE TUBES

Type	Maximum Dimensions Inches		Frequency Range KMc	Min. Power Output Watts	Min. Small Signal Gain db	Max. Noise Figure db
	Lgth.	Diam.				
4009	15 3/8	1 1/2	2—4	0.01	33	—
4010	15 3/8	1 1/2	2—4	1	33	—
4015	15 3/8	1 3/4	8—12	1	33	—
4017	16	1 1/2	2—4	0.01	30	16
4019	17 3/8	1 1/2	1—2	0.01	28	17
4020	16	1 1/2	4—7	0.01	28	18
4021	16	1 9/16 x 1 9/16	1—2	1	27	—
4036	19 3/8	1 3/8	2.32—2.68	0.001	28	5
6861	19 3/8	1 3/8	2.7—3.5	0.00025	20	7
7642	20 1/2	1 9/16	1.7—2.3	18	28	—

RCA Quick Selection Guide

VACUUM GAUGE TUBES

Type	Class	Pressure Range mm. of Hg	
1946	Thermocouple	1 to 0.0001	
1947	Pirani	0.5 to 0.01	
1949	Ionization	below 0.001	Hard-glass construction
1950	Ionization	Similar to 1949 but of Soft-glass construction	

PENCIL TUBES

Type	Heater Volts	Maximum Dimensions Inches		Amplification Factor	Typical Operating Conditions		
		Length	Diam.		Class of Service	Useful Power Output Watts	Frequency Mc
DIODES—For Pulse Detection Service							
6173	6.3	2.227	0.320	Max. Values: Peak Inverse Plate Volts, 1000; Peak Pulse Plate Volts, 150; Peak Pulse Plate Amperes, 1; Average Plate ma, 1.			
TRIODES—Class C Telegraphy Service							
4037	6.3	3.125	1.312	30	Osc.	0.45	2000
5675	6.3	2.252	0.817	20	Osc.	0.05	3000
5876	6.3	2.252	0.817	56	Ampl.	5	500
5876A	6.3	2.252	0.817	56	Ampl.	5	500
5893	6.0	2.297	0.817	27	Plate-pulsed Osc.	1200 peak	3300
6263A	6.0	2.63	1.010	27	Ampl.	7	500
6264A	6.0	2.63	1.010	40	Ampl.	7.5	500
7552	6.3	1.620	0.557	80	Class A Ampl.	16.5db	550
7553	6.3	1.620	0.557	80	Class A Ampl.	17db	700
7554	6.3	1.620	0.557	70	Ampl.	1.4	1000
TRIODES—Integral-Cavity Types For Oscillator Service							
6562/-5794A	6.0	3.256	0.98	—	Osc.	0.6	1680
7533	6.0	3.23	0.98	—	Osc.	0.575	1680

TUBES FOR COMPUTER APPLICATIONS

Type	Description	Class	Cathode		Maximum Ratings	
					Plate Dissipation	
			Volts	Amp	Each Unit	Both Units
5915	Pentagrid Amplifier	7-pin min	6.3	0.3	1	
5963	Medium-Mu Twin Triode	9-pin min	12.6 6.3	0.15 0.3	2.5	5
5964	Medium-Mu Twin Triode	7-pin min	6.3	0.45	1.5	3
5965	Medium-Mu Twin Triode	9-pin min	12.6 6.3	0.225 0.45	2.4	4.4
6197	Power Pentode	9-pin min	6.3	0.65	7.5	
6211	Medium-Mu Twin Triode	9-pin min	12.6 6.3	0.15 0.3	1.5	3
6350	Medium-Mu Twin Triode	9-pin min	12.6 6.3	0.3 0.6	4	7
6814	Medium-Mu Triode	Sub min	6.3	0.15	2.2	
6887	Twin Diode	7-pin min	6.3	0.2	—	
7044	Medium-Mu Twin Triode	9-pin min	6.3 12.6	0.9 0.45	4.5	8

MECHANO-ELECTRONIC TRANSDUCER

5734 Triode type for applications involving the translation of mechanical vibration into electrical current variations which can be measured. The internal section of the plate shaft has a minimum free cantilever resonance of 12,000 cycles per second.

KLYSTRON

2K26 Single-resonator reflex type with an integral resonant cavity and mechanical tuning mechanism. For local oscillator service in applications such as microwave receivers.

RCA Quick Selection Guide

"SPECIAL RED" TUBES

Type	Description	Heater or Filament		Frequency Mc	Max. Plate Dissipation Watts	Transconductance Micromhos
		Volts	Amp			
GLASS TYPE						
5690	Full-Wave Rectifier	12.6 6.3	1.2 2.4	Max. Peak Inverse Plate Volts, 1120 Max. Peak Plate Ma., 375		
5691	High-Mu Twin Triode	6.3	0.6	—	1.0	1600
5692	Medium-Mu Twin Triode	6.3	0.6	—	1.75	2200
METAL TYPE						
5693	Sharp-Cutoff Pentode	6.3	0.3	—	2.0	1650

PREMIUM TUBES

For Military Specifications and Critical Industrial Applications

Type	Prototype▲	Description	Class
0A2-WA*	0A2	Voltage Regulator	7-Pin Min.
0B2-WA*	0B2	Voltage Regulator	7-Pin Min.
2D21-W*	2D21	Thyratron Tetrode	7-Pin Min.
6AC7-W*	6AC7	Sharp-Cutoff Pentode	Metal-Octal
6AU6-WA*	6AU6	Sharp-Cutoff Pentode	7-Pin Min.
6AU6-WB*	6AU6	Sharp-Cutoff Pentode	7-Pin Min.
6J4-WA*	6J4	High-Mu Triode	7-Pin Min.
6J6-WA*	6J6	Medium-Mu Twin Triode	7-Pin Min.
6X4-W*	6X4	Full-Wave Rectifier	7-Pin Min.
12AT7-WA*	12AT7	High-Mu Twin Triode	9-Pin Min.
407A	2651	Medium-Mu Twin Triode	9-Pin Min.
408A	6AK5	Sharp-Cutoff Pentode	7-Pin Min.
5636	—	Sharp-Cutoff Pentode	Subminiature
5639	—	Sharp-Cutoff Pentode	Subminiature
5651	—	Voltage Regulator	7-Pin Min.
5651-WA*	—	Voltage Regulator	7-Pin Min.
5654	6AK5	Sharp-Cutoff Pentode	7-Pin Min.
5654/6AK5-W*	6AK5	Sharp-Cutoff Pentode	7-Pin Min.
5654/6AK5-W/6096*	6AK5	Sharp-Cutoff Pentode	7-Pin Min.

*Types manufactured to conform to a particular military specification.
▲"Premium" types may differ from their prototypes in electrical and/or mechanical characteristics, physical structure, or type of tests to which they are subjected. Tube data should, therefore, be checked before replacing a type in the prototype column with the listed "Premium" type.

RCA Quick Selection Guide

PREMIUM TUBES

For Military Specifications and Critical Industrial Applications

Type	Prototype▲	Description	Class
5670*	2C51	Medium-Mu Twin Triode	9-Pin Min.
5670-WA*	2C51	Medium-Mu Twin Triode	9-Pin Min.
5686	—	Beam Power Tube	9-Pin Min.
5718	—	Medium-Mu Triode	Subminiature
5719	—	High-Mu Triode	Subminiature
5725	6AS6	Sharp-Cutoff Pentode	7-Pin Min.
5726	6AL5	Twin Diode	7-Pin Min.
5726/6AL5-W*	6AL5	Twin Diode	7-Pin Min.
5726/6AL5-W/6097*	6AL5	Twin Diode	7-Pin Min.
5727	2D21	Thyratron Tetrode	7-Pin Min.
5727/2D21-W*	2D21	Thyratron Tetrode	7-Pin Min.
5749	6BA6	Remote-Cutoff Pentode	7-Pin Min.
5749/6BA6-W*	6BA6	Remote-Cutoff Pentode	7-Pin Min.
5750	6BE6	Pentagrid Converter	7-Pin Min.
5751*	12AX7	High-Mu Twin Triode	9-Pin Min.
5751-WA*	12AX7	High-Mu Twin Triode	9-Pin Min.
5814A*	12AU7	Medium-Mu Twin Triode	9-Pin Min.
5814-WA*	12AU7	Medium-Mu Twin Triode	9-Pin Min.
5840	—	Sharp-Cutoff Pentode	Subminiature
5842/417A	—	Medium-Mu Triode	9-Pin Min.
5847/404A	—	RF Amplifier Pentode	9-Pin Min.
5896*	—	Twin Diode	Subminiature
5899	—	Semiremote-Cutoff Pentode	Subminiature
5902	—	Beam-Power Tube	Subminiature
6005	6AQ5	Beam-Power Tube	7-Pin Min.
6005/6AQ5-W*	6AQ5	Beam-Power Tube	7-Pin Min.
6005/6AQ5-W/6095*	6AQ5	Beam-Power Tube	7-Pin Min.
6021	—	Medium-Mu Twin Triode	Subminiature
6072	12AY7	Medium-Mu Twin Triode	9-Pin Min.
6073	OA2	Voltage Regulator	7-Pin Min.
6073/OA2	OA2	Voltage Regulator	7-Pin Min.
6074	OB2	Voltage Regulator	7-Pin Min.
6074/OB2	OB2	Voltage Regulator	7-Pin Min.
6080-WA*	6AS7-G	Low-Mu Twin Power Triode	Glass-Octal
6099	6J6	Medium-Mu Twin Triode	7-Pin Min.
6101	6J6	Medium-Mu Twin Triode	7-Pin Min.
6101/6J6-WA*	6J6	Medium-Mu Twin Triode	7-Pin Min.
6111	—	Medium-Mu Twin Triode	Subminiature
6112*	—	High-Mu Twin Triode	Subminiature
6136	6AU6	Sharp-Cutoff Pentode	7-Pin Min.
6186	6AG5	Sharp-Cutoff Pentode	7-Pin Min.

*Types manufactured to conform to a particular military specification.
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RCA Quick Selection Guide

PREMIUM TUBES

For Military Specifications and Critical Industrial Applications

Type	Prototype▲	Description	Class
6186/6AG5-WA*	6AG5	Sharp-Cutoff Pentode	7-Pin Min.
6189/12AU7-WA*	12AU7	Medium-Mu Twin Triode	9-Pin Min.
6201	12AT7	High-Mu Twin Triode	9-Pin Min.
6205	5840	Sharp-Cutoff Pentode	Subminiature
6206	5899	Semiremote-Cutoff Pentode	Subminiature
6386	2C51	Medium-Mu Twin Triode	9-Pin Min.
7905	—	Beam-Power Tube	9-Pin Min.
8077/7054	12BY7A	Power Pentode	9-Pin Min.

TUBES FOR SPECIAL APPLICATIONS

Type	Description	Heater or Filament		Frequency Mc	Max. Plate Dissipation Watts	Transconductance Micromhos
		Volts	Amp			
MINIATURE						
1L4	Sharp-Cutoff Pentode	1.4	0.05	—	—	1,025
3A4	Power Pentode	1.4 2.8	0.2 0.1	—	2.0	1,900
3A5	Medium-Mu Twin Triode	1.4 2.8	0.22 0.11	40	1.0	1,800
6AK6	Power Pentode	6.3	0.15	—	2.75	2,300
6AS6	Sharp-Cutoff Pentode	6.3	0.175	—	1.7	3,200
6J4	UHF Amplifier Triode	6.3	0.4	500	2.25	12,000
26A6	Remote-Cutoff Pentode	26.5	0.07	—	3.0	4,000
26C6	Twin-Diode—Medium-Mu Triode	26.5	0.07	—	2.5	1,900
26D6	Pentagrid Converter	26.5	0.07	—	1.0	475
407A	Medium-Mu Twin Triode	20	0.10	800	1.5	5,500
408A	Sharp-Cutoff Pentode	20	0.05	—	1.7	5,600

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RCA Quick Selection Guide

TUBES FOR SPECIAL APPLICATIONS (cont'd)

Type	Description	Heater or Filament		Frequency Mc	Max. Plate Dissipation Watts	Transconductance Micromhos
		Volts	Amp			
MINIATURE (cont'd)						
5842	Medium-Mu Triode	6.3	0.3	—	4.0	27,000
5847	Sharp-Cutoff Pentode	6.3	0.3	—	3.0	13,000
6922	Medium-Mu Twin Triode	6.3	0.3	—	1.5	10,000 to 15,000
7360	Beam-Deflection Tube	6.3	0.35	100	—	—
9001	Sharp-Cutoff Pentode	6.3	0.15	—	0.5	1,400
9002	UHF Oscillator Triode	6.3	0.15	500	—	2,200
9003	RF or IF Mixer Pentode	6.3	0.15	—	—	1,800
9006	UHF Diode	6.3	0.15	700	—	—
METAL AND GLASS TYPES						
6AG7-Y	Power Pentode	6.3	0.65	—	9.0	11,000
6AS7-G	Low-Mu Twin Triode	6.3	2.5	—	13.0	7,000
6F4	Oscillator Triode	6.3	0.225	—	2.0	—
6L4	Oscillator Triode	6.3	0.225	—	1.7	6,400
6SJ7-Y	Sharp-Cutoff Pentode	6.3	0.3	—	2.5	1,650
12A6	Beam Power Tube	12.6	0.15	—	7.5	3,000
12SW7	Twin-Diode—Medium-Mu Triode	12.6	0.15	—	2.5	1,900
12SX7-GT	Medium-Mu Twin Triode	12.6	0.3	—	2.5	2,600
12SY7	Pentagrid Converter	12.6	0.15	—	1.0	450
26A7-GT	Twin Beam Power Tube	26.5	0.6	—	2.0	5,700
954	Sharp-Cutoff Pentode	6.3	0.15	430	0.5	1,400
955	Medium-Mu Triode	6.3	0.15	600	8.0	—
956	Remote-Cutoff Pentode	6.3	0.15	430	1.7	600

TUBES FOR SPECIAL APPLICATIONS (cont'd)

Type	Description	Heater or Filament		Frequency Mc	Max. Plate Dissipation Watts	Transconductance Micromhos
		Volts	Amp			
METAL AND GLASS TYPES (cont'd)						
957	Medium-Mu Triode	1.25	0.05	—	—	650
958A	Medium-Mu Triode	1.25	0.1	350	0.6	—
959	Sharp-Cutoff Pentode	1.25	0.05	—	—	600
1609	Sharp-Cutoff Pentode	1.1	0.25	—	—	725
1612	Pentagrid Mixer	6.3	0.3	—	—	375
1620	Sharp-Cutoff Pentode	6.3	0.3	—	1.75	1,900
1621	Power Pentode	6.3	0.7	—	7.9	—
1622	Beam Power Tube	6.3	0.9	—	13.8	—
1629	Electron Ray Tube	12.6	0.15	Plate and target supply volts, 250. At zero grid bias, shadow angle = 90°. At −7.5 volts grid bias, shadow angle = 0°.		
1631	Beam Power Tube	12.6	0.45	—	16.0	—
1635	High-Mu Twin Triode	6.3	0.6	—	3.0	—
5642	Half-Wave Rectifier	1.25	0.2	Max. peak inverse volts, 10,000. Max. DC plate ma, 0.25		
5687	Medium-Mu Twin Triode	6.3 12.6	0.9 0.45	—	4.2	11,500
6026	Oscillator Triode	6.3	0.2	400	3.0	—
6080	Low-Mu Twin Triode	6.3	2.5	—	13.0	—
6082	Low-Mu Twin Power Triode	26.5	0.6	—	13.0	—
6336A	Low-Mu Twin Power Triode	6.3	5.0	—	30.0	13,500
9004	UHF Diode	6.3	0.15	850	—	—
9005	UHF Diode	3.6	0.165	1500	—	—

RCA Quick Selection Guide

TUBES FOR MOBILE COMMUNICATIONS EQUIPMENT

(Operating from 3- and 6-Cell Storage-Battery Systems)

For 6-Cell Storage Battery Systems

Type	Description	Class	Service
7054	Power Pentode	9-Pin Min.	Class C rf power amplifier, oscillator, frequency multiplier up to 40 Mc.
7055	Twin Diode	7-Pin Min.	Detector in am and fm receivers, low-current rectifier, speech clipper
7056	Sharp-Cutoff Pentode	7-Pin Min.	Rf and if amplifier up to 45 Mc.
7057	Medium-Mu Twin Triode	9-Pin Min.	Rf amplifier in cascode-type circuits up to 200 Mc.
7058	High-Mu Twin Triode	9-Pin Min.	Phase inverter, resistance-coupled amplifier, low-frequency oscillator
7059	Medium-Mu Triode—Sharp-Cutoff Pentode	9-Pin Min.	Oscillator and mixer in receivers utilizing if frequencies up to 40 Mc.
7060	Medium-Mu Triode—Power Pentode	9-Pin Min.	Pentode as Class C if amplifier and frequency multiplier up to 40 Mc.; triode unit, as reactance modulator
7061	Beam Power Tube	9-Pin Min.	Audio-frequency power amplifier
7551	Beam Power Tube	9-Pin Min.	Class C rf amplifier, oscillator, or frequency multiplier at frequencies up to 175 Mc.
7551	Beam Power Tube	9-Pin Min.	Class C rf amplifier, oscillator, or frequency multiplier at frequencies up to 175 Mc.

For 3-Cell Storage Battery Systems

6660/ 6BA6	Remote-Cutoff Pentode	7-Pin Min.	Rf amplifier in standard broadcast and fm receiver and in wide-band and high-frequency applications
6661/ 6BH6	Sharp-Cutoff Pentode	7-Pin Min.	Rf amplifier in high-frequency, wide-band applications
6662/ 6BJ6	Remote-Cutoff Pentode	7-Pin Min.	Rf amplifier in high-frequency, wide-band applications
6663/ 6AL5	Twin Diode	7-Pin Min.	Detector in fm receivers, clipper and clamper applications

RCA Quick Selection Guide

For 3-Cell Storage Battery Systems *(cont'd)*

Type	Description	Class	Service
6669 / 6AQ5-A	Beam Power Tube	7-Pin Min.	Audio-frequency power amplifier
6677 / 6CL6	Power Pentode	9-Pin Min.	Power amplifier
6678 / 6U8-A	Medium-Mu Triode—Sharp-Cutoff Pentode	9-Pin Min.	Oscillator and mixer for very high frequencies
6679 / 12AT7	High-Mu Twin Triode	9-Pin Min.	Grounded-grid amplifier, frequency converter up to 300 Mc.
6680 / 12AU7-A	Medium-Mu Twin Triode	9-Pin Min.	Phase inverter, amplifier, oscillator, multivibrator
6681 / 12AX7	High-Mu Twin Triode	9-Pin Min.	Phase inverter, resistance-coupled amplifier, multivibrator

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

By Tube Types

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
0A2WA	MIL-E-1/290B	6/18/57
0A3	MIL-E-1/17B	1/21/59
0A4G	MIL-E-1/790A	12/23/55
0B2	MIL-E-1/18	2/5/53
0B2WA	MIL-E-1/940D	7/25/60
0C3	MIL-E-1/193	5/20/53
0D3	MIL-E-1/196	5/20/53
1A3	MIL-E-1/19A	1/21/59
1A5GT	MIL-E-1/104A	1/7/54
1B3GT	MIL-E-1/748B	1/21/59
1C21	MIL-E-1/791A	12/23/55
1EP1	MIL-E-1/1342 (Navy)	4/12/60
1EP1	MIL-E-1/1342A	12/1/61
1P21	MIL-E-1/28E	2/5/62
1P37	MIL-E-1/401	10/28/53
1P39	MIL-E-1/402	10/28/53
1P40	MIL-E-1/403	10/28/53
1P42	MIL-E-1/405A	6/23/55
1R5	MIL-E-1/325A	1/21/59
1S4	MIL-E-1/326A	5/27/59
1S5	MIL-E-1/327B	1/21/59
1T4	MIL-E-1/328A	1/21/59
1U4	MIL-E-1/626A	1/21/59
1U5	MIL-E-1/327B	1/21/59
1V2	MIL-E-1/683A (Navy)	9/20/56
2A3	MIL-E-1/191B	1/21/59
2AP1A	MIL-E-1/588	2/23/54
2BP1	MIL-E-1/272B	10/22/57
2BP11	MIL-E-1/272B	10/22/57
2E24	MIL-E-1/336	8/14/53

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
2E26	MIL-E-1/338D	3/1/61
2X2A	MIL-E-1/749A	12/4/57
3A4	MIL-E-1/108A	1/21/59
3A5	MIL-E-1/33B	1/21/59
3AP1A	MIL-E-1/589	2/23/54
3B28	MIL-E-1/753D	1/28/58
3B4WA	MIL-E-1/1358 (SigC)	7/28/60
3BP1A	MIL-E-1/594	2/23/54
3C33	MIL-E-1/799	12/23/55
3D22A	MIL-E-1/798A	5/14/56
3E29	MIL-E-1/212	5/20/53
3JP1	MIL-E-1/36B	10/22/57
3JP7	MIL-E-1/36B	10/22/57
3KP1	MIL-E-1/501A	2/23/54
3Q4	MIL-E-1/343	8/14/53
3Q5GT	MIL-E-1/107A	1/7/54
3RP1	MIL-E-1/390A	2/23/54
3S4	MIL-E-1/326A	5/27/59
3V4	MIL-E-1/343	8/14/53
4X150A	MIL-E-1/160H	9/8/60
4X150D	MIL-E-1/160H	9/8/60
4CX250B	MIL-E-1/889A	10/14/60
4CX250F	MIL-E-1/889A	10/14/60
5ADP1	MIL-E-1/689C	8/26/60
5AHP7	MIL-E-1/972B	4/17/57
5BP1A	MIL-E-1/592	2/23/54
5CP1A	MIL-E-1/273E	10/31/60
5AHP7A	MIL-E-1/1161A	9/12/61
5CP7A	MIL-E-1/273E	10/31/60
5CP12	MIL-E-1/273E	10/31/60
5FP7A	MIL-E-1/43F	10/12/59
5FP14A	MIL-E-1/948C	9/12/59

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
5R4GY	MIL-E-1/344A	6/18/57
5T4	MIL-E-1/345	8/14/53
5U4G	MIL-E-1/223E	11/29/60
5U4GB	MIL-E-1/985 (Navy)	11/3/55
5UP1	MIL-E-1/498A	10/14/60
5UP7	MIL-E-1/498A	10/14/60
5V4G	MIL-E-1/224	5/20/53
5X4G	MIL-E-1/223E	11/29/60
5Z3	MIL-E-1/223E	11/29/60
5Z4	MIL-E-1/348	8/20/53
6A7	MIL-E-1/349A	1/21/59
6A8	MIL-E-1/350	8/20/53
6AB4	MIL-E-1/351	8/20/53
6AB7Y	MIL-E-1/352	8/20/53
6AC7	JAN Spec.	11/14/45
6AC7W	MIL-E-1/354	8/20/53
6AC7WA	MIL-E-1/554B	11/30/56
6AF6G	MIL-E-1/356	8/20/53
6AG5	MIL-E-1/357	8/20/53
6AG7Y	MIL-E-1/45C	5/14/56
6AK6	MIL-E-1/47A	4/22/59
6AH6	MIL-E-1/46A	4/22/59
6AQ6	MIL-E-1/48B	1/14/54
6AT6	MIL-E-1/119A	1/21/59
6AS7G	MIL-E-1/49C	1/21/59
6AU6WB	MIL-E-1/952D	3/28/61
6AU6WA	MIL-E-1/1	1/13/53
6AV6	MIL-E-1/51B	4/22/59
6B8	MIL-E-1/513	1/14/54
6BA7	MIL-E-1/406	12/9/53
6BF6	JAN Spec.	1/28/48
6BG6G	MIL-E-1/53B	1/21/59

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
6BH6	MIL-E-1/516	1/14/54
6BJ6	MIL-E-1/517	1/14/54
6BJ6A	MIL-E-1/1094A	5/2/60
6C4	MIL-E-1/55B	1/14/54
6CB6	MIL-E-1/1245A	5/2/60
6BN6	MIL-E-1/121B	9/10/61
6BQ6GT	MIL-E-1/518B	1/21/59
6C5	MIL-E-1/519	1/14/54
6C6	MIL-E-1/767A	4/22/59
6CG7	MIL-E-1/1095	10/22/57
6CL6	MIL-E-1/864B	1/21/59
6D6	MIL-E-1/768	7/16/54
6E5	MIL-E-1/57	2/5/53
6F4	MIL-E-1/424	12/9/53
6F5	MIL-E-1/192	5/20/53
6F6	MIL-E-1/122B	5/27/59
6F7	JAN Spec.	7/31/43
6G6G	MIL-E-1/565	1/22/54
6J4	MIL-E-1/58	2/5/53
6J4WA	MIL-E-1/619D	12/4/57
6J6WA	MIL-E-1/243B	6/18/57
6J7	MIL-E-1/520A	5/27/59
6J7GT	MIL-E-1/520A	5/27/59
6K6GT	MIL-E-1/566A	4/22/59
6K7	MIL-E-1/634	3/4/54
6K8	JAN Spec.	8/1/50
6L7	MIL-E-1/429A	9/17/56
6N7GT	MIL-E-1/633	3/4/54
6R7	JAN Spec.	11/15/44
6S7	MIL-E-1/635	3/4/54
6SA7Y	MIL-E-1/60A	8/14/53
6SC7	MIL-E-1/199	5/20/53

*Date of specification subject to change by military services.

Resonant Frequency Formulas

$$f = \frac{1}{2\pi\sqrt{LC}} = \frac{159.2^*}{\sqrt{LC}}$$

$$L = \frac{1}{4\pi^2 f^2 C} = \frac{25{,}330^*}{f^2 C}$$

$$C = \frac{1}{4\pi^2 f^2 L} = \frac{25{,}330^*}{f^2 L}$$

*in these formulas f is in kc and L and C are in microunits.

Impedance Formulas

$Z = \sqrt{R^2 + (X_L - X_C)^2}$ (for series circuit)

$Z = \frac{RX}{\sqrt{R^2 + X^2}}$ (for R and X in Parallel)

Decibel Formulas

When impedances are equal,

$$db = 10 \log \frac{P_1}{P_2} = 20 \log \frac{E_1}{E_2}$$

$$= 20 \log \frac{I_1}{I_2}$$

When impedances are unequal,

$$db = 10 \log \frac{P_1}{P_2} = 20 \log \frac{E_1\sqrt{Z_2}}{E_2\sqrt{Z_1}}$$

$$= 20 \log \frac{I_1\sqrt{Z_1}}{I_2\sqrt{Z_2}}$$

Decibel Table

DB	Power Ratio	Voltage or Current Ratio	DB	Power Ratio	Voltage or Current Ratio
0	1.00	1.00	10	10.0	3.2
0.5	1.12	1.06	15	31.6	5.6
1.0	1.26	1.12	20	100	10
1.5	1.41	1.19	25	316	18
2.0	1.58	1.26	30	1,000	32
3.0	2.00	1.41	40	10,000	100
4.0	2.51	1.58	50	10^5	316
5.0	3.16	1.78	60	10^6	1,000
6.0	3.98	2.00	70	10^7	3,162
7.0	5.01	2.24	80	10^8	10,000
8.0	6.31	2.51	90	10^9	31,620
9.0	7.94	2.82	100	10^{10}	10^5

Efficiency (for any device)

$$Eff = \frac{output}{input}$$

Q or Figure of Merit

$$Q = \frac{X_L}{R} \text{ or } \frac{X_C}{R}$$

Transformer Relationships

$$\frac{N_P}{N_S} = \frac{E_P}{E_S} = \frac{I_S}{I_P} = \sqrt{\frac{Z_P}{Z_S}}$$

Frequency and Wavelength

$$f_{kc} = \frac{3 \times 10^5}{\lambda_{meter}} \quad \lambda_{meter} = \frac{3 \times 10^5}{f_{kc}}$$

$$f_{Mc} = \frac{3 \times 10^4}{\lambda_{centimeter}} \quad \lambda_{cm} = \frac{3 \times 10^4}{f_{Mc}}$$

$$f_{Mc} = \frac{984}{\lambda_{feet}} \quad \lambda_{feet} = \frac{984}{f_{Mc}}$$

Length of Antennas

Formulas assume velocity of propagation equal to 95% of the velocity of light

$$L_{feet} = \frac{234}{F_{Mc}} \text{ (for quarter-wave antenna)}$$

$$L_{feet} = \frac{468^*}{F_{Mc}} \text{ (for half-wave antenna)}$$

Color Code

0 Black	4 Yellow	8 Gray
1 Brown	5 Green	9 White
2 Red	6 Blue	5% Gold
3 Orange	7 Violet	10% Silver
	20% No Color	

Third color band indicates number of zeros to be added after figures given by first two color bands. But if third color band is gold, multiply by 0.1 and if silver, multiply by 0.01. Do not confuse with fourth color band that indicates tolerance. Thus, a resistor marked blue-red-gold-gold has a resistance of 6.2 ohms and a 5% tolerance.

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ELECTRONICS DATA GUIDE

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Conversion Factors and Constants

$\pi = 3.14$ $2\pi = 6.28$
$\pi^2 = 9.87$ $(2\pi)^2 = 39.5$
$\epsilon = 2.718$ $\sqrt{2} = 1.414$
$\sqrt{3} = 1.732$ $\log \pi = 0.497$

1 meter = 39.37 inches = 3.28 feet
1 kilometer = 0.621 mi. (app. 3/5 mi.)
1 inch = 2.54 centimeters
1 kilogram = 2.2 pounds
1 liter = 1.06 quarts
1 ounce = 28.35 grams
1 horsepower = 746 watts
1 horsepower = 42.4 BTU/min
1 radian = 57.3°

Ohm's Law Formulas for D-C Circuits

$$I = \frac{E}{R} = \sqrt{\frac{P}{R}} = \frac{P}{E} \qquad R = \frac{E}{I} = \frac{P}{I^2} = \frac{E^2}{P}$$

$$E = IR = \frac{P}{I} = \sqrt{PR} \qquad P = I^2R = EI = \frac{E^2}{R}$$

Ohm's Law Formulas for A-C Circuits

In these formulas Θ is the angle of lead or lag between current and voltage and $\cos \Theta = P/EI$ = power factor.

$$I = \frac{E}{Z} = \sqrt{\frac{P}{Z \cos \Theta}} = \frac{P}{E \cos \Theta}$$

$$E = IZ = \frac{P}{I \cos \Theta} = \sqrt{\frac{PZ}{\cos \Theta}}$$

$$Z = \frac{E}{I} = \frac{P}{I^2 \cos \Theta} = \frac{E^2 \cos \Theta}{P}$$

$$P = I^2Z \cos \Theta = IE \cos \Theta = \frac{E^2 \cos \Theta}{Z}$$

Resistors in Series

$$R_{total} = R_1 + R_2 + R_3 + \cdots$$

Two Resistors in Parallel

$$R_t = \frac{R_1R_2}{R_1 + R_2} \qquad R_1 = \frac{R_tR_2}{R_2 - R_t}$$

Equal Resistors in Parallel

$$R_{total} = \frac{R}{n}$$ where n is the number of resistors

Resistors in Parallel, General Formula

$$R_{total} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \cdots}$$

Sinusoidal Voltages and Currents

Effective value = 0.707 × peak value
Average value = 0.637 × peak value
Peak value = 1.414 × effective value
Effective value = 1.11 × average value
Peak value = 1.57 × average value
Average value = 0.9 × effective value

Conductance, Susceptance, and Admittance

$$G = \frac{1}{R} \text{ (for D-C circuit)}$$

$$G = \frac{R}{R^2 + X^2} \text{ (for A-C circuit)}$$

$$B = \frac{1}{X} \text{ (when resistance is 0)}$$

$$B = \frac{X}{R^2 + X^2} \qquad Y = \frac{1}{Z} = \frac{1}{\sqrt{R^2 + X^2}}$$

Reactance Formulas

$$X_C = \frac{1}{2\pi fC} \qquad C = \frac{1}{2\pi fX_C}$$

$$X_L = 2\pi fL \qquad L = \frac{X_L}{2\pi f}$$

Power Factor

pf = $\cos \Theta$, where Θ is the angle of lead or lag

$$pf = \frac{\text{true power}}{\text{apparent power}} = \frac{P}{EI}$$

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
6SF7	MIL-E-1/363	8/20/53
6SG7Y	MIL-E-1/365A	9/17/56
6SH7	MIL-E-1/636A	9/17/56
6SJ7Y	MIL-E-1/521	1/14/54
6SQ7	MIL-E-1/124	3/30/53
6SQ7GT	MIL-E-1/124	3/30/53
6SR7	MIL-E-1/125	3/30/53
6SS7	MIL-E-1/568	1/22/54
6U5	MIL-E-1/569	1/22/54
6U8A	MIL-E-1/1169A (Navy)	10/7/59
6V6GTY	MIL-E-1/126B	5/27/59
6V6Y	MIL-E-1/126B	5/27/59
6Y6G	MIL-E-1/432A	6/18/57
6X4W	MIL-E-1/64A	5/20/53
7BP7A	MIL-E-1/66A	7/3/53
7MP7	MIL-E-1/67E	10/12/59
10KP7	MIL-E-1/503B	10/22/57
12A6Y	MIL-E-1/434	12/5/53
12AH7GT	MIL-E-1/435	12/9/53
12AT6	MIL-E-1/119A	1/21/59
12AT7WA	MIL-E-1/3D	3/28/61
12AT7WB	MIL-E-1/1097B (Navy)	12/6/60
12AU6	MIL-E-1/1091 (Navy) & Amend. dtd 5/15/57	4/4/57
12AU7	MIL-E-1/127B	1/21/59
12AX7	MIL-E-1/128C	1/21/59
12BA6	MIL-E-1/436	12/9/53
12BE6	MIL-E-1/571A	4/22/59
12C8	MIL-E-1/640	3/4/54
12H6	JAN Spec.	6/30/45
12DP7A	MIL-E-1/69B	3/11/55
12K8	JAN Spec.	9/27/50

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
12K8Y	JAN Spec.	9/27/50
12SA7Y	MIL-E-1/60A	8/14/53
12SC7	MIL-E-1/199	5/20/53
12SF7	MIL-E-1/363	8/20/53
12SG7Y	MIL-E-1/365A	9/17/56
12SH7	MIL-E-1/636A	9/17/56
12SJ7	MIL-E-1/521	1/14/54
12SK7Y	MIL-E-1/61B	9/17/56
12SL7GT	MIL-E-1/62B	1/14/54
12SN7GT	MIL-E-1/63A	3/4/54
12SQ7	MIL-E-1/124	3/30/53
12SR7	MIL-E-1/125	3/30/53
12SW7	MIL-E-1/125	3/30/53
12SX7GT	MIL-E-1/63A	3/4/54
12SY7	MIL-E-1/60A	8/14/53
25L6GT	MIL-E-1/596A	1/21/59
25Z5	MIL-E-1/539	1/14/54
25Z6GT	MIL-E-1/539	1/14/54
26A6	MIL-E-1/439A	1/21/59
26A7GT	MIL-E-1/71A	1/21/59
26C6	MIL-E-1/646A	1/21/59
26D6	MIL-E-1/671A	1/21/59
35C5	MIL-E-1/673	3/23/54
35L6GT	MIL-E-1/617	2/23/54
35W4	MIL-E-1/441	12/9/53
35Z5GT	MIL-E-1/616A	6/18/57
42	MIL-E-1/447A	4/22/59
50C5	MIL-E-1/448A	4/22/59
50L6GT	MIL-E-1/596A	1/21/59
50Y6GT	JAN Spec.	11/20/45
80T	MIL-E-1/347A	6/18/57
83	MIL-E-1/581A	4/22/59

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
117N7GT	JAN Spec.	2/9/44
117P7GT	MIL-E-1/544A	5/27/59
117Z6GT	MIL-E-1/584	1/22/54
575A	JAN Spec.	7/1/49
801A	MIL-E-1/926	6/23/55
803	MIL-E-1/927A	6/28/57
	(except that the Bump Test 4.9.19.3 be deleted)	
805	MIL-E-1/921	8/5/55
807	MIL-E-1/99A	1/14/54
808	JAN Spec.	2/1/46
809	JAN Spec.	7/15/44
810	JAN Spec.	11/20/45
811A	MIL-E-1/871A	6/28/57
813	MIL-E-1/928A	10/26/55
814	JAN Spec.	6/30/45
815	MIL-E-1/929	8/5/55
816	JAN Spec.	11/15/45
829B	MIL-E-1/853	6/28/56
830B	JAN Spec.	3/15/46
832A	MIL-E-1/215	5/20/53
833A	MIL-E-1/933	8/5/53
836	MIL-E-1/912	6/23/55
837	MIL-E-1/934	8/5/55
845W	MIL-E-1/816	10/26/54
861	MIL-E-1/935	8/5/55
868	MIL-E-1/561	2/23/54
880	MIL-E-1/950A	6/28/57
884	MIL-E-1/894B	12/4/57
891R	MIL-E-1/1007	5/14/56
902A	MIL-E-1/593	2/23/54
918	MIL-E-1/562	2/23/54
920	MIL-E-1/408	10/28/53

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CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
921	MIL-E-1/409A	11/20/53
922	MIL-E-1/410A	11/20/53
925	MIL-E-1/412B	10/22/57
927	MIL-E-1/414	10/28/53
929	MIL-E-1/416	10/28/53
930	MIL-E-1/417	10/28/53
931VA	MIL-E-1/597C	10/22/57
955	MIL-E-1/457	1/7/54
956	MIL-E-1/458	1/7/54
957	MIL-E-1/547	1/14/54
1613	MIL-E-1/460	1/7/54
1616	MIL-E-1/915	8/5/55
1619	MIL-E-1/649	3/4/54
1624	MIL-E-1/461	1/7/54
1625	MIL-E-1/99A	1/14/54
1631	MIL-E-1/699	5/3/54
1635	MIL-E-1/462	1/7/54
2041	MIL-E-1/1383 (Navy)	7/10/61
2031	MIL-E-1/1273 (Navy)	6/12/59
5652	MIL-E-1/419A	2/23/54
5651WA	MIL-E-1/825A	9/17/56
5654/6AK5W	MIL-E-1/4D	3/28/61
5670	MIL-E-1/5E	12/14/61
5675	MIL-E-1/78C	2/7/55
5690	MIL-E-1/489B	12/4/57
5691	MIL-E-1/133A	7/16/54
5692	MIL-E-1/134B	12/4/57
5693	MIL-E-1/81A	1/14/54
5696	MIL-E-1/917B	3/13/58
5726/6AL5W	MIL-E-1/7E	3/28/61
5751WA	MIL-E-1/237	5/20/53
5727/2D21W	MIL-E-1/83C	4/17/61

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
5749/6BA6W	MIL-E-1/8C	3/29/61
5751	MIL-E-1/10E	8/9/61
5762	MIL-E-1/824	2/7/55
5763	MIL-E-1/85A	12/26/56
5794A	MIL-E-1/180E	6/28/57
5814A	MIL-E-1/12E	10/19/61
5819	MIL-E-1/943B	10/22/57
5876	MIL-E-1/94D	8/23/55
5876A	MIL-E-1/1043 (USAF)	8/23/55
5879	MIL-E-1/1017B	12/20/61
5893	MIL-E-1/96E	3/11/55
5915	MIL-E-1/470	1/7/54
5963	MIL-E-1/1035 (Navy)	4/12/56
5963	MIL-E-1/1033 (SigC)	3/15/56
5964	MIL-E-1/472B	1/21/59
6005/6AQ5W	MIL-E-1/13E	3/29/61
6012	MIL-E-1/714C	5/23/61
6032A	MIL-E-1/606A (Navy)	9/20/54
6080	MIL-E-1/209	5/20/53
6080WA	MIL-E-1/510D	12/20/61
6082	BuShips	9/2/52
6099	MIL-E-1/241	5/20/53
6146	MIL-E-1/380C	1/21/59
6146W	MIL-E-1/1362 (Navy)	1/16/61
6159	MIL-E-1/863 (Navy) & Ltr. dtd 2/20/57	2/16/55
6161	MIL-E-1/1067 (Navy)	11/23/56
6186/6AG5WA	MIL-E-1/244A	7/16/54
6189/12AU7WA	MIL-E-1/246D	8/7/61
6197	MIL-E-1/904B (Navy)	10/9/59
6211	MIL-E-1/905C (Navy)	12/15/58
6263	MIL-E-1/684 (USAF)	10/20/54

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
6263A	MIL-E-1/1044 (USAF)	—
6264A	MIL-E-1/1045 (USAF)	5/27/59
6293	MIL-E-1/381B	2/7/61
6293W	MIL-E-1/1363 (Navy)	2/7/61
6383	MIL-E-1/595B (USAF)	12/29/53
6816	MIL-E-1/1239 (SigC)	10/28/56
6884	MIL-E-1/1239 (SigC)	10/28/56
6914A	MIL-E-1/1049A (Navy)	9/30/57
6914A	MIL-E-1/1049C	1/8/62
6950/2039	MIL-E-1/1332A (USAF)	5/12/61
6952	MIL-E-1/1106 (Navy)	6/17/57
7008	MDNE-PD-66	5/22/61
7111	MIL-E-1/1243 (Navy)	2/25/59
7315	MIL-E-1/1274A (Navy)	4/11/60
7448	MIL-E-1/1274A (Navy)	4/11/60
7533	MIL-E-1/1311 (SigC)	9/24/59
7554	MIL-E-1/1325A (Navy)	8/15/61
7580	MIL-E-1/1318 (USAF)	10/30/59
7586	MIL-E-1/1397 (SigC)	5/26/61
7587	MIL-E-1/1434 (SigC)	2/5/62
7895	MIL-E-1/1433 (SigC)	2/1/62
8005	JAN Spec.	11/15/45
8013A	JAN Spec.	12/15/44
8025A	JAN Spec.	8/1/48
9001	MIL-E-1/652A	1/21/59
9002	MIL-E-1/653A	1/21/59
9003	MIL-E-1/654A	1/21/59
9004	MIL-E-1/902 (Navy)	4/22/55
9005	MIL-E-1/655A	1/21/59
9006	MIL-E-1/476A	1/21/59

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

By Mil Specs

Military Specification	RCA Tube Type	Military Specification	RCA Tube Type
1	6AU6WA	99A	1625
3D	12AT7WA	104A	1A5GT
4D	5654/6AK5W	107A	3Q5GT
5E	5670	108A	3A4
7E	5726/6AL5W	119A	6AT6
8C	5749/6BA6W	119A	12AT6
10E	5751	121B	6BN6
12E	5814A	122B	6F6
13E	6005/6AQ5W	124	6SQ7
17B	0A3	124	6SQ7GT
18	0B2	124	12SQ7
19A	1A3	125	6SR7
28D	1P21	125	12SR7
33B	3A5	125	12SW7
36B	3JP1	126B	6V6GTY
36B	3JP7	126B	6V6Y
43F	5FP7A	127B	12AU7
45C	6AG7Y	128C	12AX7
46A	6AH6	133A	5691
47A	6AK6	134B	5692
48B	6AQ6	160H	4X150A
49C	6AS7G	160H	4X150D
51B	6AV6	180E	5794A
53B	6BG6G	191B	2A3
55B	6C4	192	6F5
57	6E5	193	0C3
58	6J4	196	0D3
60A	6SA7Y	199	6SC7
60A	12SA7Y	199	12SC7
60A	12SY7	209	6080
61B	12SK7Y	212	3E29
62B	12SL7GT	215	832A
63A	12SN7GT	223E	5U4G
63A	12SX7GT	223E	5X4G
64A	6X4W	223E	5Z3
66A	7BP7A	224	5V4G
67E	7MP7	237	5751WA
69B	12DP7A	241	6099
71A	26A7GT	243B	6J6WA
78C	5675	244A	6186/6AG5W
81A	5693	246D	6189/12AU7WA
83C	5727/2D21W	272B	2BP1
85A	5763	272B	2BP11
94D	5876	273E	5CP1A
96E	5893	273E	5CP7A
99A	807	273E	5CP12

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

Military Specification	RCA Tube Type	Military Specification	RCA Tube Type
290B	0A2WA	447A	42
325A	1R5	448A	5oC5
326A	1S4	457	955
326A	3S4	458	956
327B	1S5	460	1613
327B	1U5	461	1624
328A	1T4	462	1635
336	2E24	470	5915
338D	2E26	472B	5964
343	3Q4	476A	9006
343	3V4	489B	5690
344A	5R4GY	498A	5UP7
345	5T4	498A	5UP1
347A	80T	501A	3KP1
348	5Z4	503B	10KP7
349A	6A7	510D	6080WA
350	6A8	513	6B8
351	6AB4	516	6BH6
352	6AB7Y	517	6BJ6
354	6AC7W	518B	6BQ6GT
356	6AF6G	519	6C5
357	6AG5	520A	6J7
363	6SF7	520A	6J7GT
363	12SF7	521	6SJ7Y
365A	6SG7Y	521	12SJ7
365A	12SG7Y	539	25Z5
380C	6146	539	25Z6GT
381B	6293 and 6293W	544A	117P7GT
390A	3RP1	547	957
401	1P37	561	868
402	1P39	562	918
403	1P40	565	6G6G
405A	1P42	566A	6K6GT
406	6BA7	568	6SS7
408	920	569	6U5
409A	921	571A	12BE6
410A	922	581A	83
412B	925	584	117Z6GT
414	927	588	2AP1A
416	929	589	3AP1A
417	930	592	5BP1A
419A	5652	593	902A
424	6F4	594	3BP1A
429A	6L7	596A	25L6GT
432A	6Y6G	596A	50L6GT
434	12A6Y	597C	931VA
435	12AH7GT	616A	35Z5GT
436	12BA6	617	35L6GT
439A	26A6	619D	6J4WA
441	35W4	626A	1U4

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

Military Specification	RCA Tube Type	Military Specification	RCA Tube Type
633	6N7GT	864B	6CL6
634	6K7	871A	811A
635	6S7	889A	4CX250B
636A	6SH7	889A	4CX250F
636A	12SH7	894B	884
640	12C8	912	836
646A	26C6	915	1616
649	1619	917B	5696
652A	9001	921	805
653A	9002	926	801A
654A	9003	927A	803
655A	9005	928A	813
671A	26D6	929	815
673	35C5	933	833A
689C	5ADP1	934	837
699	1631	935	861
748B	1B3GT	940D	0B2WA
749A	2X2A	943B	5819
753D	3B28	948C	5FP14A
767A	6C6	950A	880
768	6D6	952D	6AU6WB
790A	0A4G	972B	5AHP7
791A	1C21	1007	891R
798A	3D22A	1094A	6BJ6A
799	3C33	1095	6CG7
816	845W	1161	5AHP7A
824	5762	1245A	6CB6
825A	5651WA	1342A	1EP1
853	829B		

Navy Limited Coordinated Specifications

1342A	1EP1	1067	6161
683A	1V2	904B	6197
985	5U4GB	905C	6211
1169A	6U8A	1363	6293W
1091	12AU6	1049A	6914A
1097B	12AT7WB	1106	6952
1273	2031	1243	7111
1383	2041	1274A	7315
1035	5963	1274A	7448
606A	6032A	1325A	7554
1362	6146W	902	9004
863	6159		

Army Limited Coordinated Specifications

1358	3B4WA	1311	7533
1033	5963	1397	7586
1239	6816	1434	7587
1239	6884	1433	7895

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

Military Specification	RCA Tube Type	Military Specification	RCA Tube Type
Air Force Limited Coordinated Specifications			
1043	5876A	595B	6383
684	6263	1332A	6950/2039
1044	6263A	MDNE-PD-66	7008
1045	6264A	1318	7580
JAN Coordinated Specifications			
JAN Specification	**RCA Tube Type**	**JAN Specification**	**RCA Tube Type**
11/15/45	6AC7	7/1/49	575A
1/28/48	6BF6	2/1/46	808
7/31/43	6F7	7/15/44	809
8/1/50	6K8	11/20/45	810
11/15/44	6R7	6/30/45	814
6/30/45	12H6	11/15/45	816
9/27/50	12K8	3/15/46	830B
9/27/50	12K8Y	11/15/45	8005
11/20/45	50Y6GT	12/15/44	8013A
2/9/44	117N7GT	8/1/48	8025A

RCA
INTERCHANGEABILITY DIRECTORY OF INDUSTRIAL-TYPE ELECTRON TUBES

The primary means of identifying a tube type is the basic designation which may take different forms. The simplest designations consist only of a number; others employ a combination of letters and digits. In addition, many manufacturers have utilized a prefix composed of one or more letters.

Because the majority of industrial tube types employ industry-assigned type designations, this directory has been prepared without distinctive manufacturers' identification prefixes, except in those cases where manufacturers assign their own type numbers. One manufacturer may assign the same type number to a tube type as that of another manufacturer for an entirely different tube type. In such cases, the manufacturer's prefix is retained to distinguish between the types. For example, the number 54 is used by one manufacturer to identify a phototube, and by another manufacturer to identify a power tube. Therefore, to permit product identification, it is necessary to retain the manufacturer's prefix as an essential part of the basic type number. Hence, the phototube is identified as CE54, and the power tube as HK54. In all other cases, any industry-assigned type made by one manufacturer is directly interchangeable with a type having the same designation made by another manufacturer, regardless of the manufacturer's prefix.

Identifying information about the Type to be Replaced, including the associated prefix when necessary, is given in the first column, followed by a symbol in the second column denoting the class of tube. The last two columns show the RCA Direct Replacement Type or the RCA Similar Type, respectively, when one or the other is available. In some cases the usefulness of the list is further extended by showing both a Direct Replacement Type and a Similar Type.

Basic designations shown in the first column of the tabulation are listed in numerical-alphabetical sequence. Those starting with a digit are given first; those starting with a letter appear at the end of the tabulation.

HOW TO USE

1. Look in Column 1 for the basic designation of the type to be replaced.

2. Then look in Column 3 for the corresponding RCA Direct Replacement Type.

3. If no RCA Direct Replacement Type is shown, look in Column 4 for an RCA Similar Type. Such a type usually is not directly interchangeable with the type to be replaced because of mechanical and/or electrical differences. Tube data should, therefore, be checked before using an RCA Similar Type as a replacement.

KEY TO SYMBOLS IN COLUMN 2

CM = Camera Tube or Monoscope
CR = Cathode-Ray Tube
G = Glow Tube
GA = Gauge Tube
K = Klystron
I = Ignitron
IC = Image-Converter Tube
M = Magnetron
P = Phototube
PC = Photoconductive Cell
PJ = Photojunction Cell
R = Rectifier
RT = Receiving Tube
RIT = Receiving-Type Industrial Tube
ST = Storage Tube
T = Thyratron
TW = Traveling-Wave Tube
VPT = Vacuum Power Tube

Information contained in this Interchangeability Directory has been carefully checked and is believed to be reliable but no responsibility is assumed for possible inaccuracies. The reporting of any discrepancies to Commercial Engineering, RCA, Harrison, N. J., will be appreciated.

***DIRECT REPLACEMENT TYPES**—RCA types shown in this category are direct replacements for corresponding types to be replaced.

†**SIMILAR REPLACEMENT TYPES**—RCA types shown in this category are not directly interchangeable with the types to be replaced because of differences in mechanical and/or electrical characteristics. For more information as to degree of interchangeability, refer to respective tube data or write to RCA Commercial Engineering, Harrison, New Jersey.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
0A2	G	0A2	0D3
0A2-WA	G	0A2-WA	0A2, 0D3
0A3	G	0A3	0C2
0A3/VR75	G	0A3	0C2
0A4-G	G	0A4-G	
0B2	G	0B2	0C3
0B2-WA	G	0B2-WA	0B2, 0C3
0C2	G	0C2	0A3
0C3	G	0C3	0B2
0C3/VR105	G	0C3	0B2
0C3-W	G		0C3, 0B2
0D3	G	0D3	0A2
0D3/VR150	G	0D3	0A2
0D3-W	G		0D3, 0A2
1C21	G	1C21	
1EP1	CR	1EP1	
1EP2	CR	1EP2	
1EP11	CR	1EP11	
1L4	RIT	1L4	
1P21	P	1P21	
1P22	P	1P22	
1P23	P	868	
1P28	P	1P28	
1P29	P	1P29	
1P29/ FJ401	P	1P29	
1P32	P	927	
1P37	P	1P37	
1P39	P	1P39	
1P40	P	1P40	
1P41	P	1P41	
1P42	P	1P42	
2-150D	R		8020
2AP1	CR	2AP1-A	
2AP1-A	CR	2AP1-A	
2BP1	CR	2BP1	
2BP11	CR	2BP11	
2C22	RT		6J5
2C38	VPT	2C39-A	
2C39	VPT	2C39-A	
2C39-A	VPT	2C39-A	
2C39-B	VPT		2C39-A
2C39-WA	VPT	2C39-WA	
2C40	VPT	2C40	
2C40-A	VPT	2C40-A	
2C43	VPT	2C43	
2C51	RIT	5670	5670-WA
2D21	T	2D21	2D21-W, 5727, 5727/ 2D21-W
2D21-W	2D21-W	T	2D21, 5727, 5727/ 2D21-W
2E24	2E24	VPT	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
2E25	VPT		2E24
2E26	VPT	2E26	
2E30	VPT		5618
2F21	CM	2F21	
2K26	K	2K26	
2X2/879	R	2X2-A	
2X2-A	R	2X2-A	
3-25A3	VPT		809
3-50A4	VPT		811-A
3-50G2	VPT	834	
3-75A3	VPT		8005
3-450A4	VPT		833-A
3A4	RIT	3A4	
3A5	RIT	3A5	
3AP1	CR	3AP1-A	
3AP1-A	CR	3AP1-A	
3AQP1	CR	3AQP1	
3B24-W	R		8020
3B25	R	3B25	
3B27	R		836
3B28	R	3B28	
3BP1	CR	3BP1-A	
3BP1-A	CR	3BP1-A	
3C21	VPT		838
3C23	T	3C23	
3C33	VPT	3C33	
3C45	T	6130/ 3C45	
3CX100A5	VPT		2C39-A
3D22	T	3D22-A	
3D22-A	T	3D22-A	
3E29	VPT	3E29	
3JP1	CR	3JP1	
3JP7	CR	3JP7	
3KP1	CR	3KP1	
3KP4	CR	3KP4	
3KP7	CR	3KP7	
3KP11	CR	3KP11	
3KP16	CR	3KP16	
3RP1	CR	3RP1	
3RP1-A	CR	3RP1-A	
3WP1	CR	3WP1	
3WP2	CR	3WP2	
3WP11	CR	3WP11	
3X100A5	VPT	2C39-A	
3X2500A3	VPT	5762/ 7C24	
4-65A	VPT	4-65A	
4-125A	VPT	4-125A/ 4D21	
4-125A/ 4D21	VPT	4-125A/ 4D21	
4-125A/ 6155	VPT	6155/ 4-125A	
4-250A	VPT	4-250A/ 5D22	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
4-250A/ 5D22	VPT	4-250A/ 5022	
4-250A/ 6156	VPT	6156/ 4-250A	
4-400A	VPT	4-400A	
4-750A	VPT		4-1000A
4-1000A	VPT	4-1000A	
4AP10	CR	4AP10	
4B24	R		604/7014*
4B32	R		872-A
4C21	VPT		8005
4C22	VPT		8005
4C25	VPT		808
4CX250B	VPT	7203/ 4CX250B	
4CX250F	VPT	7204/ 4CX250F	
4D21	VPT	4-125A/ 4D21	
4D21/ 4-125A	VPT	4D21/ 4-125A	
4D21-A	VPT		4-125A/ 4D21
4D32	VPT		4-125A/ 4D21
4E27/ 8001	VPT	4E27/ 8001	
4E27A	VPT	4E27-A/ 5-125B	
4E27A/ 5-125B	VPT	4E27A/ 5-125B	
4X150A	VPT	7034/ 4X150A, 4X150A	
4X150D	VPT	7035/ 4X150D, 4X150D	
4X150G	VPT		7034/ 4X150A, 4X150A
4X250B	VPT	7203/ 4CX250B	
4X250F	VPT	7204/ 4CX250F	
4X500A	VPT	4X500A	
5-125B	VPT	4E27A/ 5-125B	
5ABP1	CR	5ABP1	
5ABP7	CR	5ABP7	
5ABP11	CR	5ABP11	
5ADP1	CR	5ADP1	
5ADP7	CR		5ABP7
5ADP11	CR		5ABP11
5AGP1	CR		5ABP1
5AGP7	CR		5ABP7
5AGP11	CR		5ABP11

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
5AHP7	CR	5AHP7, 5AHP7-A	
5AHP7-A	CR	5AHP7-A	
5AUP24	CR	5AUP24	
5AYP4	CR	5AYP4	
5AZP4	CR	5AZP4	
5BP1	CR	5BP1-A	
5BP1-A	CR	5BP1-A	
5C21	T	C6J/5C21	760/6858
5C21/C6J	T	C6J/5C21	
5C24	VPT		8000
5CMP16	CR		5ZP16
5CP1	CR	5CP1-A	
5CP1-A	CR	5CP1-A	
5CP7	CR	5CP7-A	
5CP7-A	CR	5CP7-A	
5CP11-A	CR	5CP11-A	
5CP12	CR	5CP12	
5D22	VPT	4-250A/ 5D22	
5DEP1	CR		5UP1
5DEP7	CR		5UP7
5DEP11	CR		5UP11
5FP4-A	CR	5FP4-A	
5FP7-A	CR	5FP7-A	
5FP7-B	CR		5FP7-A
5FP14	CR	5FP14-A	
5FP14-A	CR	5FP14-A	
5FP15-A	CR	5FP15-A	
5MP1-A	CR		5BP1-A
5R4-GY	R	5R4-GY	5R4-GYB
5R4-GYB	R	5R4-GYB	5R4-GY
5TP4	CR	5TP4	
5UP1	CR	5UP1	
5UP7	CR	5UP7	
5UP11	CR	5UP11	
5WP11	CR	5WP11	
5WP15	CR	5WP15	
5ZP16	CR	5ZP16	
5ZP24	CR		5AUP24
6AC7-W	RIT	6AC7-W	
6AC7-Y	RIT	6AC7-W	
6AG5-WA	RIT	6186/ 6AG5-WA	6186
6AG7-Y	RIT	6AG7-Y	
6AK5-W	RIT	5654/ 6AK5-W	5654, 5654/ 6AK5-W/ 6096
6AK6	RIT	6AK6	
6AR6	RT		6BG6-GA
6AS6	RIT	6AS6	5725
6AS7-G	RIT	6AS7-G	6080, 6080-WA

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
6AS7-GTB	RIT		6AS7-G, 6080, 6080-WA
6AU6-WA	RIT	6AU6-WA	6136
68	R		5561
6BA6-W	RIT	5749/ 68A6-W	5749
6C24	VPT		5786
6D22	VPT		4X500A
6F4	RIT	6F4	
6J4	RIT	6J4	6J4-WA
6J4-WA	RIT	6J4-WA	6J4
6J6-WA	RIT	6J6-WA	6101, 6101/ 6J6-WA
6Q5-G	T	884	
6SJ7-WGT	RIT		5693, 6SJ7-Y
6SJ7-Y	RIT	6SJ7-Y	5693, 6SJ7-WGT
6SL7-WGT	RIT		5691
6SN7-GTY	RIT	6SN7-GTY	5692
7BP7	CR	7BP7-A	
7BP7-A	CR	7BP7-A	
7BP7-B	CR		7BP7-A
7C24	VPT	5762/7C24	
7C25	VPT		5762/7C24
7C27	VPT		5762/7C24
7C30	VPT		5762/7C24
7CP4	CR	7CP4	
7JP1	CR	7VP1	
7MP7	CR	7MP7	
7NP4	CR	7NP4	
7QP4	CR	7QP4	
7TP4	CR	7TP4	
7VP1	CR	7VP1	
7WP4	CR	7WP4	
8D21	VPT	8D21	
8HP4	CR	8HP4	
8JP4	CR		8HP4
8MP4	CR		8HP4
8YP4	CR		8HP4
9C21	VPT	9C21	
9C22	VPT	9C22	
9C25	VPT	9C25	
10AKP7	CR		10KP7
10KP7	CR	10KP7	
10KP7-A	CR	10KP7	
10KP7-B	CR		10KP7
10SP4	CR	10SP4	
10-Y	VPT	801-A	
12A6	RIT	12A6	
12AT7-WA	RIT	12AT7-WA	6201
12AU7-WA	RIT	6189/ 12AU7-WA	5814-A, 5814-WA
12DP7	CR	12DP7-A	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
12DP7-A	CR	12DP7-A	
12DP7-B	CR	12DP7-A	
12DP7-C	CR		12DP7-A
12SW7	RIT	12SW7	
12SX7-GT	RIT	12SX7-GT	
12SY7	RIT	12SY7	
16ADP7	CR	16ADP7	
17	T	5557	
24-G	VPT		808
25T	VPT		809
26A6	RIT	26A6	26FZ6
26A7-GT	RIT	26A7-GT	
26C6	RIT	26C6	
26D6	RIT	26D6	
30Z	VPT		809
32 (or FG 32)	R	5558	
35T	VPT		811-A
35TG	VPT		808
40	VPT		812-A
51T	VPT		8005
57	T		5559
75TH	VPT		8005
81A	T		3C23
83	R	83	
100R	R	8020	
100TH	VPT		810
100TL	VPT		8000
104	R	5561	
105	T	105	
111H	VPT		812-A
143-D	R		2X2-A
150T	VPT		806
152TH	VPT		806
152TL	VPT		806
172	T	172	
203-A	VPT		8005
203-H	VPT		8005
203-Z	VPT		838
205-D	VPT		801-A
205-E	VPT		801-A
207	VPT	207	
211	VPT		8005
211B	VPT		8005
211D	VPT		8005
211E	VPT		8005
211H	VPT		8005
214E	R		836
217-A	R		80
217-C	R		836
220C	VPT		892
220CA	VPT		892-R
232C	VPT		892
233	VPT		880
241B	VPT		833-A
242A	VPT		8005
242B	VPT		8005

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
242C	VPT		8005
249A	R		866-A
249B	R		866-A
249C	R		866-A
250TH	VPT		810
250TL	VPT		806
254B	VPT		865
255A	R		869-B
255B	R		869-B
258B	R		866-A
260A	VPT		860
266B	R		857-B
266C	R		857-B
267B	R		872-A
268A	VPT		801-A
274A	RIT		5R4-GY
274B	RIT	5R4-GY	
284A	VPT		845
284B	VPT		845
284D	VPT		845
295A	VPT		8005
300	VPT		806
301A	R		83
303A	VPT		8005
304B	VPT	834	
304H	VPT		833-A
304T	VPT		833-A
307A	VPT		807
310	VPT		801-A
310A	RIT		6C6
310B	RIT		1620
312A	VPT		828
313C	G		1C21
315A	R		673
319A	R		872-A
320B	VPT		892
321A	R		673
322A	VPT	803	
323B	T		3C23
328A	RT		6C6
331A	VPT	805	
332A	VPT		803
339A	VPT		807
341AA	VPT		891-R
342A	VPT		892
342B	VPT		8005
343A	VPT		892
348A	RIT		1620
349A	RT		6F6
350A	VPT	807	
350B	VPT		807
351A	RT		6X5-GT
352A	RT		6R7
353A	R	872-A	
354C	VPT		806
354E	VPT		806

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
356	VPT		5771
356A	VPT		807
356B	VPT		806
357A	VPT		833-A
357B	VPT		833-A
359A	G		1C21
363A	VPT		892
367A	H		673
369B	H		869-B
371B	H		8020
375A	H		575-A
381	VPT	2C39-A	
384D	VPT		845
393A	T		3C23
394A	T		627
395A	G		5823
403A	RT	6AK5	6AK5-W, 5654, 5654/ 6AK5-W, 5654/ 6AK5-W/ 6096
403B	RT		6AK5, 6AK5-W, 5654, 5654/ 6AK5-W, 5654/ 6AK5-W/ 6096
407A	RIT	407-A	
408A	RIT	408-A	
415	I	5550	
421A	RIT		6AS7-G, 6080, 6080-WA
423A	G		5651
450TH	VPT		833-A
451	R	8020	
460	VPT		806
463	VPT		806
468	VPT		810
471	VPT		8005
473	VPT		5762/7C24
481	R		8013-A
481B	R		8013-A
502A	T	502-A	
546	T		5696
575-A	R	575-A	
578	R		8020
579-B	R	579-B	
604	R	604/7014	
604/7014	R	604/7014	
604L	R		604/7014

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
615	R	615/7018	5558
615/7018	R	615/7018	
618	R		5561
618L	R		5561
618P	R		5561
627	T	627	
629	T	629	
630	T	2050	2050-A
630A	T	2050	2050-A
631	T	5559	
632-A	T	632-B	
632-B	T	632-B	
635	R	635/7019	5561
635/7019	R	635/7019	
635L	R		635/7019
635P	R		635/7019
651	I	5552-A	
651/656	I	5552-A	
652	I	5551-A	
652/657	I	5551-A	
653B	I	5555	
655	I	5553-B	
655/658	I	5553-B	
656	I	5552-A	
657	I	5551-A	
658	I	5553-B	
672	T	672-A	
672-A	T	672-A	
673	R	673	
676	T	676	
677	T	677	
678	T		5563-A
681	I	5550	
681/686	I	5550	
686	I	5550	
710	T	710/6011	676
710/6011	T	710/6011	676
710L	T		710/6011
714	T	714/7021	5557
714/7021	T	714/7021	5557
715	T	5557	
715/5557	T	5557	
715/5557/ FG-17	T	5557	
716	T	716/6885	
716/6885	T	716/6885	
760	T	760/6858	
760/6858	T	760/6858	
760L	T		760/6858
760P	T		760/6858
778	T		760/6858
778L	T		760/6858
778P	T		760/6858
800	VPT		812-A
801	VPT	801-A	
801-A	VPT	801-A	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
801-A/801	VPT	801-A	
802	VPT	802	
803	VPT	803	
804	VPT	804	
805	VPT	805	
806	VPT	806	
807	VPT	807	
808	VPT	808	
809	VPT	809	
810	VPT	810	
811	VPT	811-A	
811-A	VPT	811-A	
812	VPT	812-A	
812-A	VPT	812-A	
813	VPT	813	
814	VPT	814	
814/RK47	VPT	814	
815	VPT	815	
816	R	816	
826	VPT	826	
827-R	VPT	827-R	
828	VPT	828	
829	VPT	829-B	
829-A	VPT	3E29	
829-B	VPT	829-B	
830	VPT	830-B	
830-B	VPT	830-B	
832	VPT	832-A	
832-A	VPT	832-A	
833	VPT	833-A	
833-A	VPT	833-A	
834	VPT	834	
836	R	836	
837	VPT	837	
838	VPT	838	
841	VPT		809
845	VPT	845	
854H	VPT		833-A
857	R	857-B	
857-B	R	857-B	
859	VPT		9C21
860	VPT	860	
861	VPT	861	
865	VPT	865	
866	R	866-A	
866-A	R	866-A	
866-A/866	R	866-A	
866-AX	R		866-A
866-JR	R		816
868	P	868	
868/PJ23	P	868	
869-A	R	869-B	
869-B	R	869-B	
872	R	872-A	
872-A	R	872-A	
872-A/872	R	872-A	

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
878	R	878	
879	R	2X2-A	
880	VPT	880	
884	T	884	
885	T	885	
889	VPT	889-A	
889-A	VPT	889-A	
889-R	VPT	889R-A	
889R-A	VPT	889R-A	
891	VPT	891	
891-R	VPT	891-R	
892	VPT	892	
892-R	VPT	[illegible]-R	
893	VPT		9C21
893-A	VPT		9C21
893A-R	VPT		9C22
902	CR	902-A	
902-A	CR	902-A	
906-P1	CR	3AP1-A	
908	CR	908-A	
908-A	CR	908-A	
917	P	917	
918	P	918	
919	P	919	
920	P	920	
921	P	921	
922	P	922	
923	P	923	
925	P	925	
926	P	926	
927	P	927	
928	P	928	
929	P	929, 1P39	
930	P	930, 1P40	
931	P	931-A	
931-A	P	931-A	
931-VA	P	931-VA	
934	P	934	
935	P	935	
954	RIT	954	
955	RIT	955	
956	RIT	956	
957	RIT	957	
958-A	RIT	958-A	
959	RIT	959	
967	T	5557	
991	G	991	
1051	I	1051-A, 5551-A	
1051-A	I	1051-A, 5551-A	
1052	I	1052-A, 5552-A	
1052-A	I	1052-A, 5552-A	
1266	G		582

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
1267	RT		2A3
1280	RT		14C7
1603	RHT		1620, 5879
1609	RHT	1609	
1612	RHT	1612	
1613	RHT	1613	
1614	RHT	1614	
1616	R	1616	
1619	RHT	1619	
1620	RHT	1620	
1621	RHT	1621	
1622	RHT	1622	
1623	VPT		809
1624	VPT	1624	
1625	VPT	1625	
1626	RHT	1626	
1629	RHT	1629	
1631	RHT	1631	
1632	RHT	1632	
1635	RHT	1635	
1640	P	6405/ 1640	
1645-A	P	1645-A	
1654	R		1X2-A
1699	CM	1699	
1701	T	5557	
1702	T		5563-A
1802-P1	CR	5BP1-A	
1816-P4	CR		10FP4-A
1816-P4A	CR		10FP4-A
1818-P1	CR	1818-P11	
1818-P11	CR	1818-P11	
1818-P27	CR	1818-P27	
1849	CM	1850-A	
1850	CM	1850-A	
1850-A	CM	1850-A	
1852	RT	6AC7	
1853	RT	6AB7	
1854	CM	6474	
1855	ST		7539
1858	ST	1858	
1899	CM		2F21
1946	GA	1946	
1947	GA	1947	
1949	GA	1949	
1950	GA	1950	
2020	P	2020	
2022	P	2022	
2029	VPT	2029	
2039	VPT	6950/ 2039	
2041	VPT	2041	
2050	T	2050	2050-A
2050-A	T	2050-A	2050
2051	T	2050	2050-A
2054	VPT	2054	

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
2056	F	2056	
2525A5	CR	5BP1-A	
4009	TW	4009	
4010	TW	4010	
4011	M	4011-A	
4011-A	M	4011-A	
4015	TW	4015	
4017	TW	4017	
4019	TW	4019	
4020	TW	4020	
4021	TW	4021	
4401	CM	4401	
4401VI	CM	4401VI	
4402	PC	4402	
4403	PC	4403	
4404	PC	4404	
4408	PC	4408	
4410	PC	4410	
4415	CM	4415	
4416	CM	4416	
4420	PJ	4420	
4600-A	VPT	4600-A	
4601	VPT	4601	
4602	VPT	4602	
4603	VPT	4603	
4604	VPT	4604	
5514	VPT		811-A
5516	VPT		2E24
5530	VPT		5762/ 7C24
5550	I	5550	
5550/GL415	I	5550	
5550/681	I	5550	
5550/681/ 686	I	5550	
5551	I	1051-A, 5551-A	
5551/652	I	1051-A, 5551-A	
5551/ FG-271	I	1051-A, 5551-A	
5551-A	I	1051-A, 5551-A	
5551-A/652	I	1051-A, 5551-A	
5552	I	1052-A, 5552-A	
5552/651	I	1052-A, 5552-A	
5552/ FG-235A	I	1052-A, 5552-A	
5552-A	I	1052-A, 5552-A	
5552-A/651	I	1052-A, 5552-A	
5553	I	5553-B	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
5553/655	I	5553-B	
5553/ FG-258A	I	5553-B	
5553-A	I	5553-B	
5553-B	I	5553-B	
5553-B/655	I	5553-B	
5555	I	5555	
5555/653-B	I	5555	
5555/ FG-238B	I	5555	
5556	VPT	5556	
5556/ PJ-8	VPT	5556	
5557	T	5557	
5557/17	T	5557	
5557/715	T	5557	
5557/FG-17	T	5557	
5557/ FG-17/ 1701	T	5557	
5558	R	5558	
5558/32	R	5558	
5558/FG-32	R	5558	
5559	T	5559	
5559/57	T	5559	
5559/FG-57	T	5559	
5560	T	5560	
5560/FG-95	T	5560	
5561	R	5561	
5561/104	R	5561	
5561/ FG-104	R	5561	
5563	T	5563-A	
5563-A	T	5563-A	
5581	P	5581	
5582	P	5582	
5583	P	5583	
5584	P	5584	
5588	VPT	5588	
5590/4018	RIT		5654, 6AK5-W, 5654/ 6AK5-W, 5654/ 6AK5-W/ 6096
5591/4038	RIT		5654, 6AK5-W, 5654/ 6AK5-W, 5654/ 6AK5-W/ 6096
5592	VPT	5592	
5604	VPT		9C2S

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
5604-A	VPT		9C25
5606	VPT		892
5618	RIT	5618	
5632	T	C3J/5632	
5632/C3J	T	C3J/5632	
5636	RIT	5636	5636-A
5636-A	RIT	5636-A	5636
5639	RIT	5639	
5642	R	5642	
5651	G	5651	
5651-WA	G	5651-WA	
5653	P	5653	
5654	RIT	5654	6AK5-W, 5654/ 6AK5-W, 5654/ 6AK5-W/ 6096
5654/ 6AK5-W	RIT	5654/ 6AK5-W	6AK5-W, 5654/ 6AK5-W/ 6096
5654/ 6AK5-W/ 6096	RIT	5654/ 6AK5-W/ 6096	5654, 5654/ 6AK5-W
5658	VPT		880
5659	RIT		12A6
5660	RIT		12C8
5661	RIT		12SK7
5663	T		5696
5664	T		3C23
5665	T	C16J/ 5665	
5665/ C16J	T	C16J/ 5665	
5666	VPT		889-A
5667	VPT		889R-A
5668	VPT		892
5669	VPT		892-R
5670	RIT	5670	5670-WA
5670-WA	RIT	5670-WA	5670
5671	VPT	5671	
5675	VPT	5675	
5679	RT		7A6
5683	T		716/6855
5683/C1J-A	T		716/6855
5684	T	C3J-A/ 5684	3C23
5684/C3J-A	T	C3J-A/ 5684	
5685	T	C6J-A/ 5685	
5685/C6J-A	T	C6J-A/ 5685	
5686	RIT	5686	
5687	RIT	5687	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
5690	R	5690	
5691	RIT	5691	
5692	RIT	5692	
5693	RIT	5693	
5695	R		816
5696	T	5696	
5713	VPT	5713	
5718	RIT	5718	
5718-A	RIT	5718	
5719	RIT	5719	
5719-A	RIT	5719	
5725	RIT	5725	6AS6
5726	RIT	5726	5726/6AL5-W, 5726/6AL5-W/6097
5726/6AL5-W	RIT	5726/6AL5-W	5726, 5726/6AL5-W/6097
5726/6AL5-W/6097	RIT	5726/6AL5-W/• 6097	5726, 5726/6AL5-W
5727	T	5727	2D21, 2D21-W, 5727/2D21-W
5727/2D21-W	T	5727/2D21-W	2D21, 2D21-W
5734	RIT	5734	
5736	VPT		5762/7C24
5741	R		8020
5743	VPT		5556
5749	RIT	5749	5749/6BA6-W
5749/6BA6-W	RIT	5749/6BA6-W	5749
5750	RIT	5750	6BE6
5751	RIT	5751	5751-WA
5751-WA	RIT	5751-WA	5751
5762	VPT	5762/7C24	
5762/7C24	VPT	5762/7C24	
5763	RIT	5763	
5770	VPT	5770	
5771	VPT	5771	
5786	VPT	5786	
5788	I		5555
5794	VPT		6562/5794-A
5794-A	VPT	6562/5794-A	
5812	RIT		5763
5814	RIT	5814-A	5814-WA, 6189/12AU7-WA

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
5814-A	RIT	5814-A	5814-WA, 6189/12AU7-WA
5814-WA	RIT	5814-WA	5814-A, 6189/12AU7-WA
5819	P	5819	
5820	CM	5820	
5822	I	5822-A	
5822-A	I	5822-A	
5823	G	5823	
5825	R	5825	
5840	RIT	5840	
5840-A	RIT		5840
5844	RIT		5964
5868/AX9902	VPT		833-A
5876	VPT	5876	5876-A
5876-A	VPT	5876-A	5876
5879	RT	5879	
5881	RT	5881	
5891	VPT		5671
5892	R		635/7019
5893	VPT	5893	
5896	RIT	5896	
5897	RIT	5718	
5898	RIT	5719	
5899	RIT	5899	
5899-A	RIT	5899	
5902	RIT	5902	
5915	RIT	5915	
5915-A	RIT		5915
5917	VPT		5762/7C24
5918	VPT		5770
5919	VPT		5671
5920	RIT		6101, 6J6-WA
5930	RT		2A3
5931	RT		5U4-GB
5932	RT		7027-A
5933	VPT		807
5933-WA	VPT		807
5934	R		579-B
5936	VPT		9C21
5946	VPT	5946	
5963	RIT	5963	
5964	RIT	5964	
5965	RIT	5965	
5965-A	RIT		5965
6005	RIT	6005	6005/6AQ5-W
6005/6AQ5-W	RIT	6005/6AQ5-W	6005, 6005/6AQ5-W/6095
6005/	RIT	6005/	6005, (Cont'd)

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
6AQ5-W/ 6095	RIT	6AQ5-W/ 6095	6005/ 6AQ5-W
6011	T	710/6011	
6011/710	T	710/6011	
6012	T	6012	
6014	T	C1K/6014	
6014/C1K	T	C1K/6014	
6021	RIT	6021	
6026	RIT	6026	
6028	RIT	408-A	
6028/408A	RIT	408-A	
6032	IC	6032, 6032-A	
6032-A	IC	6032-A	
6057	RIT		5751
6058	RIT		5726
6060	RIT		6201
6062	RIT		5763
6067	RIT		5814-A
6072	RIT	6072	
6073	G	6073	6073/ OA2, OA2,OD3
6073/OA2	G	6073/OA2	6073, OA2, OD3
6074	G	6074	6074/ OB2, OB2,OC3
6074/OB2	G	6074/OB2	6074, OB2, OC3
6080	RIT	6080	6080-W, 6AS7-G
6080-WA	RIT	6080-WA	6080, 6AS7-G
6082	RIT	6082	
6082-A	RIT		6082
6084	RT		5879
6085	RIT		5692
6087	R		5690
6094	RIT		6005, 6005/ 6AQ5-W/ 6095, 6005/ 6AQ5-W
6095	RIT	6005/ 6AQ5-W/ 6095	6005, 6005/ 6AQ5-W
6096	RIT	5654/ 6AK5-W/ 6096	5654, 5654/ 6AK5-W, 6AK5-W
6097	RIT	5726/ 6AL5-W/ 6097	5726, 5726/ 6AL5-W

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
6099	RIT	6099	6J6-WA, 6101, 6101/6J6-WA
6101	RIT	6101	6101/6J6-WA
6101/6J6-WA	RIT	6101/6J6-WA	6101
6106	R		5690
6111	RIT	6111	
6112	RIT	6112	
6130	T	6130/3C45	
6130/3C45	T	6130/3C45	
6136	RIT	6136	6AU6-WA
6140/423-A	RIT		5651
6146	VPT	6146	
6155	VPT	6155/4-125A	
6155/4-125A	VPT	6155/4-125A	
6156	VPT	6156/4-250A	
6156/4-250A	VPT	6156/4-250A	
6159	VPT	6159	
6161	VPT	6161	
6166	VPT	6166	
6166-A	VPT	6166-A/7007	
6166-A/7007	VPT	6166-A/7007	
6173	R	6173	
6180	R		5690
6181	VPT	6181	
6186	RIT	6186	6186/6AG5-WA
6186/6AG5-WA	RIT	6186/6AG5-WA	6186
6189/12AU7-WA	RIT	6189/12AU7-WA	5814-A, 5814-WA
6197	RIT	6197	
6198	CM		7038
6198-A	CM		7038
6199	P	6199	
6201	RIT	6201	6AT7-WA
6205	RIT	6205	
6206	RIT	6206	
6211	RIT	6211	
6211-A	RIT		6211
6217	P	6217	
6263	VPT	6263	
6264	VPT	6264-A	
6264-A	VPT	6264-A	
6267	RT		5879

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
6291	P	6199	
6292	P	6342-A	
6293	VPT	6293	
6326	CM	6326	
6326-A	CM		7038
6328	P	6328	
6333	VPT		892
6336	RIT		6336-A
6336-A	RIT	6336-A	
6337	RIT		6336-A
6342	P	6342-A	
6342-A	P	6342-A	
6346	I		1051-A, 5551-A
6347	I		1052-A, 5552-A
6348	I		5553-B
6350	RIT	6350	
6362	P		7767
6365	P		7764
6385	RIT		5670
6394	RIT		6082
6405/1640	P	6405/1640	
6414	RIT		5965
6417	RIT	6417	7551
6445	VPT		892-R
6446	VPT		892
6447	VPT		892-R
6448	VPT	6448	
6467	P		6199
6472	P	6472	
6474	CM	6474	
6474/1854	CM	6474	
6486	RIT		5725
6486-A	RIT		5725
6499	ST	6499	
6509	I		5555
6514	I		5555
6520	RIT		6AS7-G
6521	M	6521	
6524	VPT	6524	
6528	RIT		6080
6549	VPT		4-65A
6550	RIT		7027-A
6562	VPT	6562/ 5794-A	
6562/ 5794-A	VPT	6562/ 5794-A	
6570	P	6570	
6571	ST	6571	
6576	VPT		5771
6626	G	6626/ OA2-WA	OA2-WA
6626/ OA2-WA	G	6626/ OA2-WA	OA2-WA
6655	P	6655-A	

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
6655-A	P	6655-A	
6660	RIT	6660/6BA6	
6660/6BA6	RIT	6660/6BA6	
6661	RIT	6661/6BH6	
6661/6BH6	RIT	6661/6BH6	
6662	RIT	6662/6BJ6	
6662/6BJ6	RIT	6662/6BJ6	
6663	RIT	6663/6AL5	
6663/6AL5	RIT	6663/6AL5	
6664	RIT		6AB4
6669	RIT	6669/6AQ5-A	
6669/6AQ5-A	RIT	6669/6AQ5-A	
6676	RIT		6CB6
6677	RIT	6677/6CL6	
6677/6CL6	RIT	6677/6CL6	
6678	RIT	6678/6U8-A	
6678/6U8-A	RIT	6678/6U8-A	
6679	RIT	6679/12AT7	
6679/12AT7	RIT	6679/12AT7	
E680	RIT	6680/12AU7-A	
6680/12AU7-A	RIT	6680/12AU7-A	
6681	RIT	6681/12AX7	
6681/12AX7	RIT	6681/12AX7	
6687	RIT		5915
6694-A	PC	6694-A	
6806	VPT	6806	
6810	P	6810-A	
6810-A	P	6810-A	
6814	RIT	6814	
6816	VPT	6816	
6829	RIT		5965
6849	CM	6849	7198
6850	VPT	6850	
6853	R		5690
6855/716	T	716/6855	
6858/760	T	760/6858	
6861	T*	6861	
6865	M	6865-A	
6865-A	M	6865-A	
6866	ST	6866	7448
6883	VPT	6883	
6884	VPT	6884	
6887	RIT	6887	
6893	VPT	6893	
6894	R	6894	
6895	R	6895	

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
6896/1855	ST		7539
6897	VPT	6897	
6903	P	6903	
6911	P		7102
6914	IC	6914	
6914-A	IC	6914-A	
6922	RIT	6922	
6929	IC	6929	
6935	P		7767
6939	RIT	6939	
6949	VPT	6949	
6950/2039	VPT	6950/2039	
6952	VPT	6952	
6953	P	6953	
6957	PC	6957	
6991	ST		7448
7007	VPT	6166-A/ 7007	
7008	M	7008	
7014	R	604/7014	
7018	R	615/7018	
7019	R	635/7019	
7021	T	714/7021	
7029	P	7029	
7034/ 4X150A	VPT	7034/ 4X150A	
7035/ 4X150D	VPT	7035/ 4X150D	
7036	RIT		5915
7038	CM	7038	
7038-A	CM		7038
7043	P	7043	
7044	RIT	7044	
7046	P	7046	
7054	RIT	7054	
7055	RIT	7055	
7056	RIT	7056	
7057	RIT	7057	
7058	RIT	7058	
7059	RIT	7059	
7060	RIT	7060	
7061	RIT	7061	
7062	RIT		5965
7064	P		6655-A
7065	P		6655-A
7079	RIT		6111
7085	VPT		5771
7094	VPT	7094	
7102	P	7102	
7105	RIT		6080, 6080-WA, 6AS7-G
7111	M	7111	
7117	P	7117	
7136	R		575-A
7163	PC	7163	

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
7183	ST	7183	
7198	CM	7198	
7200	P	7200	
7203/ 4CX250B	VPT	7203/ 4CX250B	
7204/ 4X250F	VPT	7204/ 4CX250F	
7204/ 4CX250F	VPT	7204/ 4CX250F	
7212	VPT	7212	
7213	VPT	7213	
7214	VPT	7214	
7222	ST		4418
7223	PJ	7223	
7224	PJ	7224	
7225	ST		6499
7226	CM		7262-A
7226-A	CM		7263-A
7244	RIT		6101, 6101/ 6J6-WA, 6J6-WA
7244-A	RIT		6101, 6101/ 6J6-WA, 6J6-WA
7245	RIT		6J4-WA, 6J4
7245-A	RIT		6J4-WA, 6J4
7262	CM	7262-A	
7262-A	CM	7262-A	
7263	CM	7263-A	
7263-A	CM	7263-A	
7264	P	7264	
7265	P	7265	
7270	VPT	7270	
7271	VPT	7271	
7291-A	CM		7038
7293	CM	7293-A	
7293-A	CM	7293-A	
7295	CM	7295-A	
7295-A	CM	7295-A	
7307	T	710/6011	
7308	RIT	6922	
7315	ST	7315	
7318	RIT		5814-A
7325	CM		7735
7326	P	7326	
7336	CM		7038
7351	CM		7735-A
7357	VPT	7357	
7358	VPT	7358	
7360	RIT	7360	
7370	RIT		5687
7386	T		760/6011

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
7389	CM	7389-A	
7389-A	CM	7389-A	
7404	IC	7404	
7412	PC	7412	
7448	ST	7448	
7457	VPT	7457	
7459	VPT		5762/ 7C24
7465	VPT		9C25
7467	PJ	7467	
7509	T		710/6011
7513	CM	7513	
7533	VPT	7533	
7536	PC	7536	
7539	ST	7539	
7551	RIT	7551	
7552	VPT	7552	
7553	VPT	7553	
7554	VPT	7554	
7558	RIT	7558	
7566	ST		6499
7580	VPT	7580	
7586	RIT	7586	
7587	RIT	7587	
7607	VPT		7580
7609	VPT		7035/ 4X150D
7611	CM		5820
7629	CM	4401	
7647	VPT	7647	
7649	VPT	7649	
7650	VPT	7650	
7651	VPT	7651	
7669	I		5551-A
7671	I		5552-A
7697	CM	7697	
7701	RIT		7551
7717	RIT		6CY5
7728	RIT	6201	
7729	RIT		12AX7-A
7730	RIT	6189/ 12AU7-WA	
7731	RIT		6678/ 6U8-A
7732	RIT		6CB6
7733	RIT		5814-A
7735	CM	7735	
7735-A	CM	7735-A	
7746	P	7746	
7764	P	7764	
7767	P	7767	
7801	VPT	7801	
7835	VPT	7835	
7842	VPT	7842	
7843	VPT	7843	
7844	VPT	7844	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
7846	PC	7846	
7850	P	7850	
7870	VPT	7870	
7895	RIT	7895	
8000	VPT	8000	
8001	VPT	4E27/8001	
8005	VPT	8005	
8008	R	8008	
8013-A	R	8013-A	
8014-A	VPT		5786
8020	R	8020	
8020/100R	R	8020	
9001	RIT	9001	
9002	RIT	9002	
9003	RIT	9003	
9004	RIT	9004	
9005	RIT	9005	
9006	RIT	9006	
AX9911	T		6130/3C45
BW11	VPT	834	
C1B	T		3C23
C1B/A	T		3C23
C1J/A	T		3C23
C1K	T	C1K/6014	
C1K/6014	T	C1K/6014	
C3J	T	C3J/5632	
C3J/5632	T	C3J/5632	
C3J/A	T	C3J-A/5684	
C3J-A/5684	T	C3J-A/5684	
C6J	T	C6J/5C21	
C6J/5C21	T	C6J/5C21	
C6J/A	T	C6J-A/5685	
C6J-A/5685	T	C6J-A/5685	
C16J	T	C16J/5665	
C16J/5665	T	C16J/5665	
CDS-9	PC		7163
CE1A/B	P		918
CE1C	P	918	
CE1D	P	868	
CE1V-A/B	P		917,919
CE2C	P		6953
CE2D	P		1P40,930
CE4A/B	P		930,1P40
CE4C	P		930,1P40
CE4D	P	930,1P40	
CE5A/B	P		927
CE5C	P		927
CE5D	P		927
CE11V-A/B	P		917
CE11V-C	P		917
CE11V-D	P	917	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
CE21-A/B	P		920
CE21-C	P		920
CE21-D	P	920	
CE22	P		1P41
CEB22-C	P		1P41
CEB22-D	P	1P41	
CE23-A/B	P		923
CE23-C	P		923
CE23-D	P	923	
CE25A/B	P		927
CEB25A/B	P		927
CE25C	P		927
CEB25C	P		927
CE25D	P	927	
CEB25D	P	927	
CE29Q	P		5653
CE29R	P	929	
CE30A/B	P		930
CE30C	P		930
CE30D	P	930	
CE30V-A/B	P		925
CE30V-C	P		925
CE30V-D	P	925	
CE31V-A/B	P		919
CE31V-C	P		919
CE31V-D	P	919	
CE34Q	P		934
CE34R	P	934	
CE36A/B	P		927
CE36C	P		927
CE36D	P	927	
CE41	P	921	
CE42	P	922	
CE54	P		1P41
CE59	P	5581	
CE64Q	P		5583
CE64R	P	5583	
CE91Q	P		1P37
CE91R	P	1P37	
CE98	P	5582	
CE213	M	615/7018	
CE224	M		604/7014
CE302	T		3C23
CE306	T		676
CE309	T	5557	
CE311	T	3C23	
CL402	PC		7412
CL402S	PC		7536
CL407	PC		7412
CL407S	PC		7536
CL602	PC		4402
CL603	PC		7846
CL603A	PC		7846
CL604	PC		7846
CL605	PC		4402

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
CL605L	PC		4402
CL607	PC		4402
DR17	T		5557
DR200	VPT		806
F123-A	VPT		806
F127-A	VPT		810
F129-B	VPT		889-A
F307A	VPT	207	
F872-B	R		872-A
FG17/5557/ NL715	T	5557	
FG27A	T		5559
FG95	T	5560	
FG235A	I	5552-A	
FG238B	I	5555	
FG258A	I	5553-B	
FG258B	I	5553-B	
FG271	I	5551-A	
FJ401	P	IP29	
FJ405	P		935
FP85	R		8020
FP85A	R		8020
FY20	VPT		8000
GL35T	VPT		808
GL146	VPT		805
GL152	VPT		805
HD203-A	VPT		805
HF60	VPT		8005
HF100	VPT		8005
HF120	VPT		8005
HF125	VPT		8005
HF140	VPT		8005
HF200	VPT		8000
HF201	VPT		8000
HF201-A	VPT		8000
HF220R	VPT		5671
HF250	VPT		8000
HK54	VPT		808
HK254	VPT		810
HK257	VPT	4E27/8001	
HK257B	VPT	4E27/8001	
HK354D	VPT		806
HK354F	VPT		806
HV12	VPT		806
HV18	VPT		810
HY25	VPT		809
HY40Z	VPT		811-A
HY51B	VPT		8005
HY51Z	VPT		838
HY57	VPT		812-A
HY60	VPT		807
HY61/807	VPT	807	
HY69	VPT		1624
K20	PC	6957	
KU23	VPT		810
KU42	T	6130/3C45	

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
KU628	T		5559
KU634	T	677	
NL1001	I		5550
NL1005	I		5551-A
NL1022	I	5822-A	
NL1053	I	5553-B	
NL1053-A	I	5553-B	
NSL5	PC		7163
NSL6	PC		4404
NSL7	PC		4403
ORP30	PC		6957
ORP60	PC		7412
ORP61	PC		7536
PJ8	VPT	5556	
PJ21	VPT		5556
PJ22	P		917, 919
PJ23	P	868	
PLi72	VPT		4-1000A
R50A	P		1P41
R51A	P		927
R51B	P		5583
R51BV	P		929
R59A	P		918
R59B	P		1P37
R59TAV	P		917
R60A	P		920
R61A	P		930
R61AV	P		925
R61B	P		5581
R61BV	P		1P39
R71A	P		930
R71AV	P		925
R85A	P		928
R1111	GA		1947
RK11	VPT		809
RK12	VPT		809
RK20A	VPT	804	
RK23	VPT		802
RK25	VPT	802	
RK25B	VPT	802	
RK28	VPT	803	
RK28A	VPT	803	
RK31	VPT		830-B
RK36	VPT		806
RK37	VPT		808
RK38	VPT		810
RK39	VPT	807	
RK41	VPT		807
RK45	VPT		837
RK46	VPT		804
RK47	VPT	814	
RK48A	VPT		813
RK51	VPT		830-B
RK52	VPT		811-A
RK58	VPT	838	
RK63	VPT		806

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
RK63A	VPT		806
RX21	R		872-A
SK60	P		868
SR50	P		917
SR53	P		917
T55	VPT		808
T60	VPT		8005
T125	VPT		810
T200	VPT		806
T822	VPT		810
T875-A	R	575	
TGRA	R		575-A
TGRB	R		872-A
TT17	T		5557
TVTA	VPT		892
TVTB	VPT		833-A
TVTC	VPT		889-A
TVTE	VPT		889-A
TZ20	VPT		809
TZ40	VPT		811-A
UE100	VPT		810
UE311	VPT		8005
UE311CH	VPT		8000
UE317C	R		836
UE812-H	VPT		8005
UE893-RA	VPT		9C22
UE905	VPT	805	
UE930	VPT	830-B	
UE930-B	VPT	830-B	
UE938	VPT	838	
UE945	VPT	845	
UE966	R	866-A	
UE966-A	R	866-A	
UE972	R	872-A	
UE972-A	R	872-A	
UE973	T		5559
UE975-A	R		575-A
UEX-22	R		1616
UH50	VPT	834	
V70D	VPT		8005
VC1258	T		6130/3C45
WL734	P		917
WL735	P	868	
WL741	P	923	
WL762	GA		1947
WL767	P		935
WL773	P		935
WL775	P		935
WT6	RT	6L6	
WT210-0001	T	2021	
WT210-0003	T	884	
WT210-0004	T	2050	
WT210-0006	RT	6H6	
WT210-0007	RT		6L6
WT210-0008	R	866-A	
WT210-0009	RT	84/6Z4	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
WT210-0011	G	0C3	
WT210-0012	RT	80	
WT210-0013	RT	5Z3	
WT210-0015	T	5557	
WT210-0018	G	0D3	
WT210-0019	RIT	83	
WT210-0021	RT	6X5-GT	
WT210-0025	RT	1‡7Z6-GT	
WT210-0027	R	872-A	
WT210-0028	RT	3Q5-GT	
WT210-0029	RT	6C5	
WT210-0031	CR	902-A	
WT210-0037	RT	117L7/ M7-GT	
WT210-0038	T	172	
WT210-0040	RT	6X4	
WT210-0042	RT	5Y3-GT	
WT210-0043	T	C3J/5632	
WT210-0044	R	575-A	
WT210-0045	VPT	892	
WT210-0048	RT	5U4-G	
WT210-0052	CR	2AP1-A	
WT210-0053	CR	3AP1-A	
WT210-0056	T	5559	
WT210-0057	T	5560	
WT210-0058	T	676	
WT210-0060	G	0Z4	
WT210-0061	RT		117N7-GT
WT210-0062	T	5557	
WT210-0067	T		3C23
WT210-0069	T	5557	
WT210-0070	I	5550	
WT210-0071	I	1051-A, 5551-A	
WT210-0072	I	1052-A, 5552-A	
WT210-0073	I	5553-B	
WT210-0074	T	105	
WT210-0077	T	5727	
WT210-0078	T	172	
WT210-0079	T	105	
WT210-0081	RT	6SJ7	
WT210-0082	RT	6V6	
WT210-0083	RT	7K7	
WT210-0084	RT	6N7, 6N7-GT	
WT210-0085	RT	5085	
WT210-0086	VPT	833-A	
WT210-0087	RT	6K8	
WT210-0088	RT	6J5, 6J5-GT	
WT210-0089	RT	6G6-G	
WT210-0090	RT	6C6	
WT210-0091	G	0A4-G	
WT210-0106	T	C3J/ 5632	710/ 6011

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
WT210-0116	T	5560	
WT210-0147	I	1052-A, 5552-A	
WT210-0149	I	1051-A, 5551-A	
WT210-0152	I	5553-B	
WT210-0158	I	1051-A, 5551-A	
WT210-0159	I	1052-A, 5552-A	
WT210-0165	I	5553-B	
WT210-0179	T	760/6858	
WT210-0188	T	C1K/6014	
WT210-0234	T	C16J/5665	
WT245	T	884	
WT246	T	2050	
WT261	RT	6H6	
WT262	R	866-A	
WT263	R	8W/6Z4	
WT269	G	0C3	
WT270	RT	80	
WT270X	RT	5Z3	
WT272	T	5557	
WT294	G	0D3	
WT301	R	83	
WT308	RT	6X5-GT	
WT377	RT	117Z6-GT	
WT389	RT	3Q5-GT	
WT390	RT	6C5	
WT606	T	2D21	
WT699	I	5550	
WTT-100	RT	6X4	
WTT-102	RT	5Y3-GT	
WTT-103	RT	6H6	
WTT-104	T	575-A	
WTT-106	T	C3J/5632	
WTT-108	T	3C23	
WTT-111	T	5559	
WTT-112	T	632-B, 5560	
WTT-113	T	676	
WTT-117	T	5557	
WTT-118	T	105	
WTT-119	T	172	
WTT-122	RT	6SJ7	
WTT-123	RT	6V6	
WTT-124	RT	7K7	
WTT-125	RT	6N7-GT	
WTT-126	RT	5085	
WTT-127	VPT	833-A	
WTT-128	RT	6K8	
WTT-129	RT	6J5-GT	
WTT-130	RT	6G6-G	
WTT-131	RT	6C6	
WTT-132	G	0A4-G	

For key to symbols in column 2, see page 171.

1	2	3	4
Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
WTT-133	T		3C23
WTT-134	T	C16J/ 5665	
WTT-135	RT	5UW-G	
WTT-136	CR	2API-A	
WTT-137	CR	3API-A	
WTT-139	T		760/6858
WTT-149	T	172	
WTT-439	T	172	
Z-225/ 866-A	R		866-A
ZB120	VPT		838
ZP572	VPT	2C39-A	

For key to symbols in column 2, see page 171.

SEMICONDUCTOR DEVICES

GERMANIUM TRANSISTORS

SILICON TRANSISTORS

SILICON RECTIFIERS

MULTIPLE DIODES

TUNNEL DIODES

GERMANIUM COMPENSATING DIODE

GALLIUM-ARSENIDE VARACTOR DIODES

DIGITAL MICRO-CIRCUITS

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency					Audio Frequency			Switching				
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
GERMANIUM P-N-P TYPES (Unless Otherwise Specified)															
2N104	TO-40							■							
2N109	TO-40								■	■	■				
2N139	TO-40				■		■					■			
2N140	TO-40			■		■						■			
2N173	TO-36									■				■	■
2N174	TO-36									■				■	■
2N175	TO-40							■							
2N176	†							■		■					
2N215	TO-1							■							
2N217	TO-1								■	■	■				
2N218	TO-1				■		■					■			
2N219	TO-1			■		■						■			
2N220◆	TO-1							■							
2N269	TO-1											■			
2N270	●								■	■	■				
2N274▲◆	TO-44	■	■	■	■	■	■						■		
2N277	TO-36									■				■	■
2N278	TO-36									■				■	■
2N301	†									■	■				
2N301-A	†									■					
2N351	†									■					
2N370▲	TO-7	■													
2N371▲	TO-7				■										
2N372▲	TO-7			■											
2N373▲‡	TO-7						■			(see 2N1633, 2N1634)					
2N374▲‡	TO-7					■				(see 2N1635, 2N1636)					
2N376	†									■					

For footnotes, see page 212.

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency						Audio Frequency				Switching				
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal Power		Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
GERMANIUM P-N-P TYPES (Unless Otherwise Spec.) (Cont'd)																
2N384▲◆	TO-44	■	■	■	■	■	■							■		
2N388*◆	TO-5												■			
2N388-A*	TO-5												■			
2N395	TO-5												■			
2N396	TO-5												■			
2N396-A	TO-5												■			
2N397	TO-5												■			
2N398	TO-5											■			■	
2N398-A	TO-5											■			■	
2N398-B	TO-5												■			
2N404◆	TO-5												■			
2N404-A	TO-5												■			
2N405	TO-40								■							
2N406	TO-1								■							
2N407	TO-40								■	■						
2N408	TO-1								■	■						
2N409	TO-40				■		■									
2N410	TO-1				■		■									
2N411	TO-40			■		■										
2N412	TO-1			■		■										
2N414	TO-5												■			
2N441	TO-36									■					■	■
2N442	TO-36									■					■	■
2N443	TO-36									■					■	■
2N578	TO-9												■			
2N579	TO-9												■			
2N580	TO-9												■	■		
2N581	TO-5												■			

For footnotes, see page 212.

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency						Audio Frequency				Switching				
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal	Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
GERMANIUM P-N-P TYPES (Unless Otherwise Spec.) (Cont'd)																
2N582	TO-5													■		
2N583	TO-1												■			
2N584	TO-1													■		
2N585*	TO-9												■			
2N586	●											■				
2N591	TO-1								■							
2N640▲‡	TO-7		■						(see 2N1637)							
2N641▲‡	TO-7						■		(see 2N1638)							
2N642▲‡	TO-7					■			(see 2N1639)							
2N643▲	TO-9													■		
2N644▲	TO-4													■		
2N645▲	TO-9													■		
2N647*	TO-1								■							
2N649*	TO-1								■							
2N705	TO-18													■		
2N708	TO-18													■		
2N710	TO-18													■		
2N711	TO-18													■		
2N794	TO-18													■		
2N795	TO-18													■		
2N796	TO-18													■		
2N828	TO-18			Epitaxial Type										■		
2N934	TO-18			Epitaxial Type										■		
2N955*	TO-18													■		
2N955-A	TO-18													■		
2N1010*	TO-1							■								
2N1023▲	TO-44	■	■	■	■	■	■							■		

or footnotes, see page 212.

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency						Audio Frequency				Switching			
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal	Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
GERMANIUM P-N-P TYPES (Unless Otherwise Spec.) (Cont'd)																
2N1066▲	TO-33	■	■	■	■	■	■						■			
2N1090*	TO-9												■			
2N1091*	TO-9												■			
2N1099	TO-36									■	■				■	■
2N1100	TO-36									■	■				■	■
2N1169*	TO-5		Bidirectional Type										■			
2N1170*	TO-5		Bidirectional Type										■		■	
2N1177▲	TO-45	■														
2N1178▲	TO-45			■												
2N1179▲	TO-45			■												
2N1180▲	TO-45						■									
2N1183	TO-8									■	■				■	■
2N1183-A	TO-8									■	■				■	■
2N1183-B	TO-8									■	■				■	■
2N1184	TO-8									■	■				■	■
2N1184-A	TO-8									■	■				■	■
2N1184-B	TO-8									■	■				■	■
2N1213	TO-5		Thyristor										■			
2N1214	TO-5		Thyristor										■			
2N1215	TO-5		Thyristor										■			
2N1216	TO-5		Thyristor										■			
2N1224▲	TO-33		■	■	■	■	■						■			
2N1225▲	TO-33	■	■	■	■	■	■						■			
2N1226▲	TO-33		■	■	■	■	■						■			
2N1300	TO-5												■			
2N1301	TO-5												■			
2N1302*	TO-5												■			

For footnotes, see page 212.

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency						Audio Frequency				Switching				
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal	Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
GERMANIUM P-N-P TYPES (Unless Otherwise Spec.) (Cont'd)																
2N1303	TO-5												■			
2N1304*	TO-5												■			
2N1305	TO-5												■			
2N1306*	TO-5												■			
2N1307	TO-5												■			
2N1308*	TO-5												■			
2N1309	TO-5												■			
2N1319	TO-5			Bidirectional Type									■			■
2N1358	TO-36									■	■				■	■
2N1384▲	TO-11															
2N1395▲	TO-33	■	■	■	■	■	■						■			
2N1396▲	TO-33	■	■	■	■	■	■						■			
2N1397▲	TO-33	■	■	■	■	■	■						■			
2N1412	TO-36									■	■				■	■
2N1425▲	TO-7						■									
2N1426▲	TO-7			■		■										
2N1450	TO-9															
2N1524▲	TO-1						■									
2N1525▲	TO-40						■									
2N1526▲	TO-1					■										
2N1527▲	TO-40					■										
2N1605*	TO-5												■			
2N1605-A*	TO-5												■			
2N1631▲	TO-40		■													
2N1632▲	TO-1		■													
2N1633▲	TO-40					■										
2N1634▲	TO-1					■										

For footnotes, see page 212.

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency						Audio Frequency				Switching				
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal	Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
GERMANIUM P-N-P TYPES (Unless Otherwise Specified)																
2N1635▲	TO-40						■									
2N1636▲	TO-1						■									
2N1637▲	TO-1		■													
2N1638▲	TO-1						■									
2N1639▲	TO-1					■										
2N1683	TO-5													■		
2N1853	TO-5													■		
2N1854	TO-5													■		
2N1905▲	†		■		■					■	■		■		■	■
2N1906▲	†		■		■					■	■		■		■	■
2N2273	TO-18	■	■				■									
2N2338	TO-36											■			■	■
2N2339	Offset Stud											■			■	■
2N2482	TO-18	■	■				■									
3907/2N404	TO-5		"Premium" Type										■			

RCA SILICON TRANSISTOR CLASSIFICATION CHART

SILICON N-P-N TYPES																
2N497	TO-5									■	■				■	■
2N656	TO-5									■	■				■	■
2N696◆	TO-5													■		
2N697◆	TO-5													■		
2N699	TO-5		■	■	■	■	■	■			■			■		
2N706	TO-18	■	■											■		
2N706-A	TO-18	■	■											■		

For footnotes, see page 212.

RCA SILICON TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency					Audio Frequency			Switching				
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
SILICON N-P-N TYPES (Cont'd)															
2N708	TO-18												■		
2N709	TO-18												■		
2N834	TO-18												■		
2N914	TO-18	■											■		
2N1067	TO-8									■				■	■
2N1068	TO-8									■				■	■
2N1069	TO-3									■				■	■
2N1070	TO-3									■				■	■
2N1092	TO-5									■				■	■
2N1479	TO-5									■				■	■
2N1480	TO-5									■				■	■
2N1481	TO-5									■				■	■
2N1482	TO-5									■				■	■
2N1483	TO-8									■				■	■
2N1484	TO-8									■				■	■
2N1485	TO-8									■				■	■
2N1486	TO-8									■				■	■
2N1487	TO-3									■				■	■
2N1488	TO-3									■				■	■
2N1489	TO-3									■				■	■
2N1490	TO-3									■				■	■
2N1491	TO-12	■	■	■	■								■	■	■
2N1492	TO-12	■	■	■	■								■	■	■
2N1493	TO-12	■	■	■	■								■	■	■
2N1511	TO-36									■					■
2N1512	TO-36									■					■
2N1513	TO-36									■					■
2N1514	TO-36									■					■

For footnotes, see page 212.

RCA SILICON TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency					Audio Frequency			Switching				
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
SILICON N-P-N TYPES (Cont'd)															
2N1613	TO-5		■	■	■	■	■	■	■	■			■	■	■
2N1700	TO-5									■					■
2N1701	TO-8									■					■
2N1702	TO-3									■					■
2N1703	TO-36									■					■
2N1708	TO-46												■		
2N1711	TO-5	■		■		■								■	■
2N1768	□									■				■	■
2N1769	□									■				■	■
2N2015	TO-36									■				■	■
2N2016	TO-36									■				■	■
2N2102	TO-5		■	■	■	■	■	■	■				■	■	■
2N2205	TO-18												■		
2N2206	TO-46												■		
2N2270	TO-5		■	■	■	■	■	■		■			■		
2N2475	TO-18												■		
2N2476	TO-5												■	■	■
2N2477	TO-5												■	■	■

* N-P-N Type

† Similar to TO-3

□ Offset-stud Type

● Like TO-7 but has 3 leads

▲ Drift-field Type

‡ Not recommended for new equipment

◆ MIL type available

RCA SILICON RECTIFIER DATA CHART

RCA TYPE	Max. DC Fwd. Amperes	Max. Peak Inverse Volts
RCA SILICON RECTIFIERS FOR RADIO AND TV APPLICATIONS		
1N1763	0.5	400
1N1764	0.5	500
RCA SILICON RECTIFIERS FOR MILITARY AND INDUSTRIAL APPLICATIONS		
1N248-A 1N248-RA	20	50
1N248-B 1N248-RB	20	55
1N248-C 1N248-RC	20	55
1N249-A 1N249-RA	20	100
1N249-B 1N249-RB	20	110
1N249-C 1N249-RC	20	110
1N250-A 1N250-RA	20	200
1N250-B 1N250-RB	20	220
1N250-C 1N250-RC	20	220
1N440-B	0.75	100
1N441-B	0.75	200
1N442-B	0.75	300
1N443-B	0.75	400
1N444-B	0.75	500
1N445-B	0.75	600
1N536	0.75	50
1N537	0.75	100
1N538	0.75	200
1N539	0.75	300
1N540	0.75	400
1N547	0.75	600

RCA SILICON RECTIFIER DATA CHART

RCA TYPE	Max. DC Fwd. Amperes	Max. Peak Inverse Volts
RCA SILICON RECTIFIERS FOR MILITARY AND INDUSTRIAL APPLICATIONS (Cont'd)		
1N1095	0.75	500
1N1183-A 1N1183-RA	40	50
1N1184-A 1N1184-RA	40	100
1N1186-A 1N1186-RA	40	200
1N1187 1N1187-R	35	300
1N1188 1N1188-R	35	400
1N1189 1N1189-R	35	500
1N1190 1N1190-R	35	600
1N1195 1N1195-R	18	300
1N1195-A 1N1195-RA	20	300
1N1196 1N1196-R	18	400
1N1196-A 1N1196-RA	20	400
1N1197 1N1197-R	18	500
1N1197-A 1N1197-RA	20	500
1N1198 1N1198-R	18	600
1N1198-A 1N1198-RA	20	600
1N1199-A 1N1199-RA	12	50
1N1200-A 1N1200-RA	12	100
1N1202-A 1N1202-RA	12	200

RCA SILICON RECTIFIER DATA CHART

RCA TYPE	Max. DC Fwd. Amperes	Max. Peak Inverse Volts
RCA SILICON RECTIFIERS FOR MILITARY AND INDUSTRIAL APPLICATIONS (Cont'd)		
1N1203-A 1N1203-RA	12	300
1N1204-A 1N1204-RA	12	400
1N1205-A 1N1205-RA	12	500
1N1206-A 1N1206-RA	12	600
1N1612 1N1612-R	5	50
1N1613 1N1613-R	5	100
1N1614 1N1614-R	5	200
1N1615 1N1615-R	5	400
1N1616 1N1616-R	5	600
INDUSTRIAL & CONSUMER APPLICATIONS		
1N2858	0.75	50
1N2859	0.75	100
1N2860	0.75	200
1N2861	0.75	300
1N2862	0.75	400
1N2863	0.75	500
1N2864	0.75	600
1N3193	0.75	200
1N3194	0.75	400
1N3195	0.75	600
1N3196	0.5	800
1N3253 1N3254 1N3255 1N3256	Like 1N3193, 1N3194, 1N3195, and 1N3196, respectively, but has insulated sleeve	

RCA SILICON RECTIFIER DATA CHART

RCA TYPE	Max. DC Fwd. Amperes	Max. Peak Inverse Volts
NEW LOW-COST, SINGLE-ENDED 125-MA TUBULAR RECTIFIERS		
Diffused-Junction Reliability for Price-Oriented Designs		
1N3754	0.125	100
1N3755	0.125	200
1N3756	0.125	400
RCA MULTICELL SILICON RECTIFIERS FOR INDUSTRIAL AND MILITARY APPLICATIONS		
CR101	0.850	1200
CR102	0.825	2000
CR103	0.725	3000
CR104	0.625	4000
CR105	0.625	5000
CR106	0.575	6000
CR107	0.550	7000
CR108	0.550	8000
CR109	0.550	9000
CR110	0.550	10000
AXIAL-LEAD TYPES WITH PRECISION-MATCHED CELLS		
CR201	0.3	1500
CR203	0.3	3000
CR204	0.3	4500
CR206	0.3	6000
CR208	0.3	8000
CR210	0.3	10000
CR212	0.3	12000

MILITARY-SPECIFICATION TYPES

TRANSISTORS

JAN 2N174	USA 2N1183-B	USA 2N1484
JAN 2N220	USA 2N1184	USA 2N1485
USA 2N274	USA 2N1184-A	USA 2N1486
JAN 2N384	USA 2N1184-B	USA 2N1511
USN 2N388	USA 2N1358	USA 2N1512
USAF 2N404	USN 2N1412	USA 2N1513
USA 2N696	USA 2N1479	USA 2N1514
USA 2N697	USA 2N1480	USN 2N1853
USA 2N706	USA 2N1481	USN 2N1854
USA 2N1183	USA 2N1482	USA 2N2273
USA 2N1183-A	USA 2N1483	

RECTIFIERS

USA 1N249-B	USAF 1N1200
USA 1N250-B	USAF 1N1201
USA 1N2135-A	USAF 1N1202
JAN 1N538	USAF 1N1203
JAN 1N540	USAF 1N1204
JAN 1N547	USAF 1N1205
USAF 1N1199	USAF 1N1206

RCA SEMICONDUCTOR DIODE CLASSIFICATION CHART

FOR TEMPERATURE- AND VOLTAGE-COMPENSATION APPLICATIONS

1N2326

Tunnel Diodes for Computer Applications

GERMANIUM TYPES

1N3128
1N3129
1N3130

GALLIUM-ARSENIDE TYPE

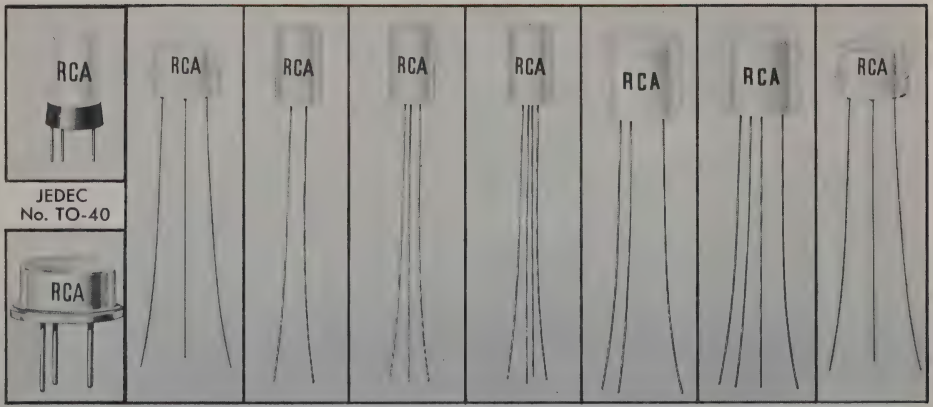
1N3138

Multiple Diode Switches for Computer Applications

GERMANIUM TYPES

2DG001
3DG001

For information on photojunction and photoconductive cells, see page 140.



JEDEC No. TO-40

JEDEC No. TO-8

JEDEC No. TO-9

COMPENSATING DIODE (TO-1 CASE)

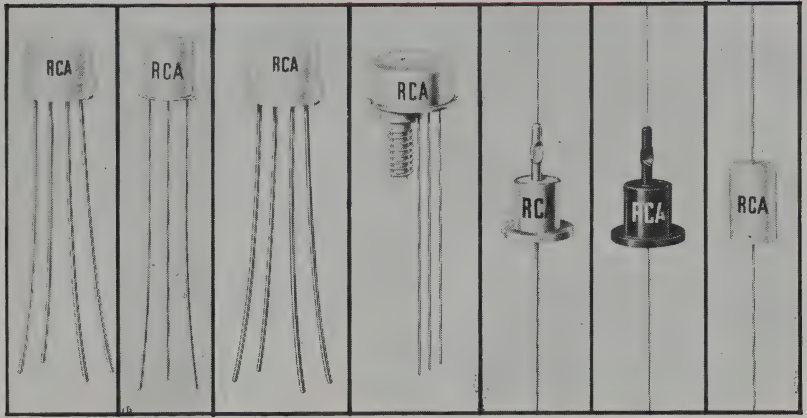
JEDEC No. TO-1

JEDEC No. TO-44

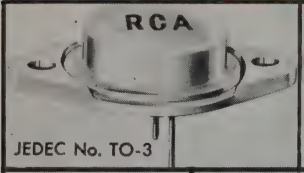
SIMILAR TO JEDEC No. TO-7

JEDEC No. TO-7

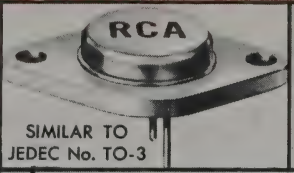
JEDEC No. TO-5



JEDEC No. TO-33 | JEDEC No. TO-18 | JEDEC No. TO-11 | OFFSET-STUD PACKAGE | JEDEC No. DO-1 | JEDEC No. DO-1 | JEDEC No. TO-1 CASE



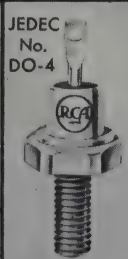
JEDEC No. TO-3



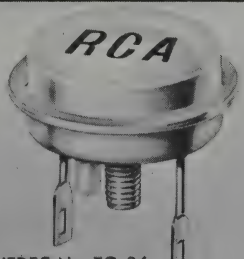
SIMILAR TO JEDEC No. TO-3

SIMILAR TO JEDEC No. TO-3 (2N1905, 2N1906)

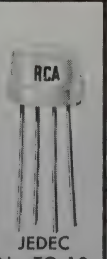
JEDEC No. DO-5



JEDEC No. DO-4



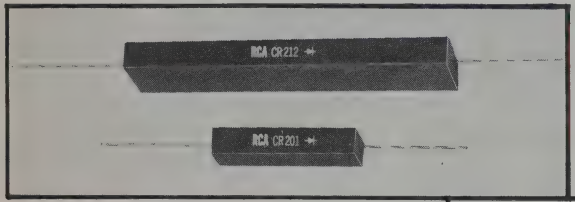
JEDEC No. TO-36



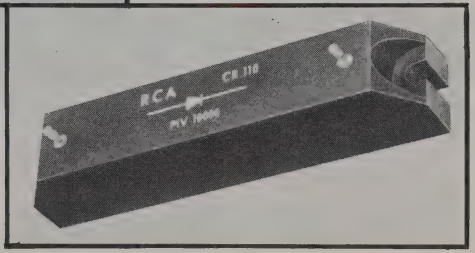
JEDEC No. TO-12

JEDEC No. TO-45

(2½ X ACTUAL SIZE)



CR-201 SERIES



CR-101 SERIES
1″ x 1″ x 2⅜″ TO 1″ x 1″ x 5½″

RCA BATTERIES—QUICK SELECTION GUIDE

RCA Type	Volts	Suggested Current Range Ma.	Max. Dimensions Inches L.	W. or Dia.	Overall Ht.	NEDA* Type No.
TYPES FOR TRANSISTOR APPLICATIONS						
VS143♦	1.4	0-100	—	0.625	0.650	1100
VS144♦	1.4	0-250	—	0.640	1.968	1101
VS145♦	1.4	0-7	—	0.455	0.135	1106
VS147♦	1.4	0-20	—	0.615	0.238	1104
VS148♦	2.8	0-100	—	0.662	1.315	—
VS149♦	4.2	0-100	—	0.662	1.965	1304
VS150♦	1.4	0-50	—	0.625	0.440	1105
VS163♦	4.2	0-50	—	0.662	1.327	1305
VS164♦	5.6	0-50	—	0.662	1.767	1404
VS165♦	7	0-50	—	0.662	2.217	1500
VS300A■	9	0-9	—	1	$1\frac{15}{16}$	1600
VS301	3, 6, 9	0-150	8	$2\frac{13}{16}$	$1\frac{9}{16}$	1601
VS304	9, 13½	0-10	$1\frac{11}{32}$	$1\frac{1}{32}$	$2\frac{11}{16}$	1900
VS305■	9	0-15	$1\frac{13}{32}$	$1\frac{11}{32}$	$2\frac{3}{4}$	1602
VS306	9	0-30	$2\frac{9}{16}$	$2\frac{1}{32}$	$3\frac{5}{32}$	1603
VS309A■	9.8	0-10	—	$\frac{9}{16}$	$1\frac{29}{32}$	1606
VS312■	8.4	0-30	$1\frac{1}{32}$	$\frac{5}{8}$	2	1604
VS313♦	1.4	0-200	—	0.550	1.968	1103
VS321	4½	0-200	$2\frac{13}{16}$	$1\frac{3}{4}$	$8\frac{11}{32}$	1303
VS322■	9	0-20	$1\frac{13}{16}$	$1\frac{13}{16}$	$2\frac{7}{16}$	1605
VS323■	9	0-8	$1\frac{1}{32}$	$\frac{21}{32}$	$1\frac{29}{32}$	1604
VS324■	4½	0-40	$1\frac{13}{32}$	$1\frac{11}{32}$	$2\frac{3}{4}$	1610
VS325■	6	0-25	$1\frac{13}{32}$	$\frac{3}{4}$	$4\frac{11}{16}$	1403
VS326■	9	0-20	$1\frac{13}{32}$	$\frac{3}{4}$	$4\frac{11}{16}$	1613
VS327♦	9	0-7	—	$\frac{3}{4}$	2	1611
VS328♦	8.4	0-50	—	$\frac{3}{4}$	2	1611
VS329■	12	0-9	—	1	$2\frac{7}{16}$	1810
VS334♦	1½	0-25	—	$\frac{9}{16}$	$1\frac{31}{32}$	15
VS335♦	1½	0-80	—	$1\frac{1}{32}$	$1\frac{15}{16}$	14
VS336♦	1½	0-150	—	$1\frac{11}{32}$	$2\frac{13}{32}$	13
VS400■	4.2	0-60	—	$1\frac{1}{32}$	$1\frac{31}{32}$	1300
VS401♦	1.4	0-50	—	0.470	1.130	1102
VS1073♦	1½	—	—	0.470	1.130	910
VS1149♦	4½	—	—	0.662	1.965	1306
VS1334♦	1½	—	—	0.550	1.960	15
VS1335♦	1½	—	—	$1\frac{1}{32}$	2	14
VS1336♦	1½	0-1000	—	$1\frac{5}{16}$	$2\frac{3}{8}$	13

*National Electronic Distributors Association.
♦Flashlight-type terminals.
■2-snap fastener terminals.

RCA BATTERIES—QUICK SELECTION GUIDE

RCA Type	Volts	Suggested Current Range Ma.	Max. Dimensions Inches L.	W. or Dia.	Overall Ht.	NEDA* Type No.
PORTABLE "A" TYPES						
VS004	1½	0-1000	2⅝	2⅝	3 27/32	4
VS009	6	0-250	2⅝	2⅝	3 27/32	6
VS034A♦	1½	0-25	—	9/16	1 31/32	815
VS035A♦	1½	0-80	—	1 1/32	1 15/16	814
VS036♦	1½	0-150	—	1 11/32	2 13/32	813
VS065	7½	0-70	2 5/32	1 15/16	3 1/32	9
VS067	4½	0-250	3 15/16	1 5/16	4 3/32	3
VS068♦	6	0-25	1 7/32	1 7/32	2 11/32	2
VS069	1½	0-300	2 25/32	1 13/32	3 1/32	18
VS070	1½	0-250	—	1 11/32	4 1/16	23
VS072	4½	0-150	4 3/32	1 7/16	2 15/16	19
VS129	7½	0-50	3 29/32	27/32	2 27/32	8
VS141	1½	0-500	2 19/32	1⅜	4¼	11
VS236♦	1½	0-300	—	1 11/32	4 3/16	20
VS315■	7½	0-80	2 9/16	2 1/32	2 13/16	26
VS1334♦	1½	—	—	0.550	1.968	815
VS1335♦	1½	—	—	1 1/32	2	814
VS1336♦	1½	0-1000	—	1 5/16	2⅜	813
PORTABLE "B" TYPES						
VS012	45	0-70	3 31/32	2 17/32	5 5/16	207
VS013	45	0-40	3 19/32	1 27/32	5½	202
VS014	45	0-40	3 9/16	2¼	4½	206
VS015	22½, 45	0-25	3	2 5/16	4⅛	205
VS016■	67½	0-10	2 13/16	1⅜	3 23/32	200
VS055■	45	0-10	2 21/32	1	3 11/16	201
VS082■	67½	0-6	2 13/16	1⅜	2½	203
VS084♦	22½	0-2.5	1 1/32	5/8	2	215
VS086■	45	0-4	1 1/16	5/8	3 11/16	213
VS090■	90	0-10	3 23/32	1⅜	3 23/32	204
VS217■	75	0-10	1 15/16	1 15/32	6 15/32	212
VS218■	67½	0-8	1 29/32	1	5 7/16	211P
VS219■	90	0-8	1 31/32	1 1/32	7 15/32	214
VS316■	90	0-10	1 15/16	1 15/32	7⅛	216
VS318■	67½	0-3	1 11/32	1	3½	217

*National Electronic Distributors Association.
♦Flashlight-type terminals.
■2-snap fastener.

RCA BATTERIES—QUICK SELECTION GUIDE

RCA Type	Volts A	Volts B	Volts C	Suggested Current Range Ma.	Max. Dimensions Inches L.	Max. Dimensions Inches W. or Dia.	Max. Dimensions Inches Overall Ht.	NEDA• Type No.
INDUSTRIAL AND SPECIAL-PURPOSE TYPES								
VS006C	1½	—	—	0-1500	—	2⅝	6 21/32	906
VS006S	1½	—	—	0-1500	—	2⅝	6 21/32	905
VS028	—	—	—4½	0-50	2 7/16	21/32	3	714
VS029§	—	—	—7½	0-50	3 29/32	21/32	3	713
VS039	6	—	—	0-1500	10 7/16	2 23/32	7 7/32	907
VS040C	6	—	—	0-250	2⅝	2⅝	4 13/32	908
VS040S	6	—	—	0-250	2⅝	2⅝	4¼	915
VS070	1½	—	—	0-250	—	1 3/32	3 15/16	23
VS083♦	—	15	—	0-2.5	1 1/32	⅝	1 15/32	208
VS084♦	—	22½	—	0-2.5	1 1/32	⅝	2	215
VS085♦	—	30	—	0-2.5	1 1/32	⅝	2 9/16	210
VS093	—	300	—	0-2.5	2 11/16	2 7/32	3 29/32	722
VS100	3	—	—	0-250	2 21/32	1 11/32	4 9/16	701
VS101	1½	—	—	0-500	2 21/32	1 11/32	4 9/16	700
VS102	—	22½	—	0-40	3½	2 3/32	3 1/16	710
VS103	6	—	—	0-1000	8 5/16	2 13/16	6 7/16	902
VS106	1½	—	—	0-1000	2⅝	2⅝	4⅜	900
VS112	—	22½, 45	—	0-50	4 3/32	2 9/16	5 7/16	709
VS114	—	22½, 45	—	0-20	3 1/32	1⅞	4 31/32	711
VS127W	—	22½, 45	—	0-250	8 1/32	4 1/16	7⅝	724
VS130	—	—	—4½	0-150	4 1/16	1 13/32	3 1/32	712
VS131	—	—	—22½	0-50	4	2 7/16	3⅛	708
VS133	4½	—	—	0-50	2 7/16	27/32	3 1/16	706
VS134	3	—	—	0-25	1 7/32	⅝	2 21/32	704
VS136*	3	—	—	0-500	2⅝	2⅝	4 9/16	703
VS138	3	—	—	0-1000	3⅞	2 11/16	5 13/16	901
VS139	7½	—	—	0-1000	7¼	4 1/16	6 7/16	903
VS140*	9	—	—	0-1000	8 13/32	4 1/16	6 7/16	904
VS142*	4½	—	—	0-25	1 25/32	⅝	2 21/32	705
VS143♦	1.4	—	—	0-100	—	0.625	0.650	1100
VS144♦	1.4	—	—	0-250	—	0.640	1.968	1101
VS145♦	1.4	—	—	0-7	—	0.455	0.135	1106
VS147♦	1.4	—	—	0-20	—	0.615	0.238	1104
VS148♦	2.8	—	—	0-100	—	0.662	1.315	—
VS149♦	4.2	—	—	0-100	—	0.662	1.965	1304
VS150♦	1.4	—	—	0-50	—	0.625	0.440	1105
VS157W*	—	22½, 45	—	0-300	8⅛	4 7/16	7 11/16	715
VS163♦	4.2	—	—	0-50	—	0.662	1.327	1305
VS164♦	5.6	—	—	0-50	—	0.662	1.767	1404
VS317	6	—	—	0-500	5 11/32	2 27/32	4 15/16	918
VS1149♦	4½	—	—	—	—	0.662	1.965	1306

•National Electronic Distributors Association.
♦Flashlight-type terminals.
*Available on special order only.
§5-screw terminals and 1 pigtail.

RCA BATTERIES—QUICK SELECTION GUIDE

Type	Volts	Suggested Current Range Ma.	Max. Dimensions Inches L.	W. or Dia.	Overall Ht.	NEDA• Type No.
FLASHLIGHT AND LANTERN TYPES						
VS034A♦	1½	0-25	—	9/16	1 31/32	815
VS035A♦	1½	0-80	—	1 1/32	1 15/16	814
VS036♦	1½	0-150	—	1 11/32	2 13/32	813
VS040C	6	0-250	2 5/8	2 5/8	4 13/32	908
VS040S	6	0-250	2 5/8	2 5/8	4 3/8	915
VS073	1½	0-20	—	0.445	1.180	910
VS074	1½	0-20	—	13/32	1¾	24
VS138	3	0-1000	3 7/8	2 11/16	5 13/16	901
VS317	6	0-500	5 11/32	2 27/32	4 15/16	918
VS1073♦	1½	0-150	—	0.470	1.130	910
VS1334♦	1½	0-300	—	0.550	1.968	815
VS1335♦	1½	0-500	—	1 1/32	2	814
VS1336♦	1½	0-1000	—	1 5/16	2 3/8	813
PHOTOFLASH TYPES						
VS704△	15	0-1.5	5/8	1 9/32	1 3/8	220
VS705†	22½	0-1.5	5/8	1 9/32	2	221
VS734♦	1½	0-25	—	9/16	1 31/32	—
VS735♦	1½	0-80	—	1 1/32	1 15/16	—
VS736♦	1½	0-150	—	1 11/32	2 13/32	—
VS1073♦	1½	0-150	—	0.470	1.130	910
VS1334♦	1½	0-300	—	0.550	1.968	1815
VS1335♦	1½	0-500	—	1 1/32	2	1814
VS1336♦	1½	0-1000	—	1 5/16	2 3/8	1813

Type	Volts A	Volts B	Suggested Current Range Ma. A	Suggested Current Range Ma. B	Max. Dimensions Inches L.	W. or Dia.	Overall Ht.	NEDA• Type No.
PORTABLE "A-B" PACKS								
VS019	7½, 9	90	0-50	12-15	9 7/32	2 23/32	4 5/16	401
VS047	9	90	0-50	12-15	14 1/16	2 11/16	4 1/16	400
VS050	6, 7½	75	0-50	0-12	8 9/16	3¾	2 7/16	403
VS057W	7½, 9	90	0-50	8-12	8 7/8	2 1/8	3 25/32	405
VS058	9	90	0-50	12-15	9 7/32	2 23/32	4 7/32	406
VS059	9	90	0-50	8-12	8 7/8	2 1/8	3 25/32	428
VS060	7½	75	0-50	0-12	8 3/8	3 3/8	2¼	431
VS064	1½	90	0-300	10-14	3 27/32	2 7/32	7 13/16	425
FARM "A-B" PACKS								
VS022	1½	90	0-300	8-12	15 11/16	4 1/32	6 15/16	413
VS119	7½, 9	90	0-50	10-12	7 27/32	4 1/8	9 7/8	415

△Flat-projecting terminals, one at each end. •National Electronic Distributors Association.
†Flat-recessed terminals, one at each end.
♦Flashlight-type terminals.

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Bright Star	
0197	VS036
0198	VS035A or VS1335
0199	VS034A or VS1334
03-17	VS133
03-17S	VS028
0918	VS300A
0920	VS312 or VS323
6 Ign.	VS006S
6 Tel.	VS006C
10M	VS1336, VS036, or VS336
10P	VS736
11M	VS035, VS335, or VS1335
11P	VS735
12P	VS084
15-03W	VS131
15-50W	VS102
15P	VS704
22P	VS705
30-03	VS012
30-03BP	VS112
30-33	VS013
30-55	VS014
30-59	VS015
30-61	VS157W
45N	VS016
50-17	VS134
51-03	VS029
51-17	VS142
58	VS074
59-1	VS034A, VS1334, or VS334
59P	VS734
60N	VS090
61-05	VS022
61R	VS236
66-03	VS047
66-50	VS019
66-52	VS050
66-53	VS057W
66-54	VS058
71-17S	VS130

Type to be Replaced	Replace by RCA Type
Bright Star (cont'd)	
126	VS138
146	VS039
155	VS139
158	VS317
260	VS100
305	VS072
360	VS067
361	VS067
460	VS040C
460S	VS040S
462	VS004
464	VS106
591	VS065
646	VS009
675	VS218
Burgess	
A30	VS014
AL-1	VS035A or VS1335
AL-9	VS034A or VS1334
AL-133	VS1149
AL-N	VS073 or VS1073
B5	VS129
B30	VS012
C5	VS065
D3	VS072
D5	VS315
D6	VS306
D6BP	VS132
D6PI	VS301
F2BP	VS100
F3	VS067
F4BP	VS040S
F4H	VS040C
F4PI	VS009
F6A60	VS019
F6A60P	VS058

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Burgess (cont'd)	
G3	VS067
G6B60	VS047
H126	VS327 or VS328
H132R	VS148
H133	VS149 or VS1149
H133R	VS149 or VS1149
H146	VS312 or VS323
H163	VS163
H164	VS164
H165	VS165
H177	VS309A
H233	VS400
Hg-1R	VS143
Hg-9	VS313
Hg-12R	VS144
Hg-400R	VS145
Hg-401	VS401
Hg-630	VS147
Hg-640	VS150
K45	VS082
L6	VS327 or VS328
M6	VS322
M30	VS013
N	VS073 or VS1073
N60	VS090
N60X	VS316
NE	VS073
P6	VS300A
P6M	VS300A
P45	VS218
P45M	VS218
P60	VS219
S6D60	VS119
S461	VS039
T5Z50	VS050
T5Z50P	VS060
T6Z60	VS057W
T6Z60P	VS059
TW1	VS317
U10	VS083

Type to be Replaced	Replace by RCA Type
Burgess (cont'd)	
U15	VS084
U20	VS085
U30	VS086
U200	VS093
UX45	VS318
V45	VS016
XX9	VS304
XX30	VS055
XX45	VS016
XX50	VS217
Y6	VS309A
Y10	VS704
Y15	VS705
Z	VS034A or VS1334
Z4	VS068
Z30	VS015
Z30NX	VS114
ZMR	VS313 or VS334
1	VS035A or VS1335
2	VS036 or VS1336
2D	VS069
2F	VS141
2F2H	VS136
2F4	VS010
2FBP	VS101
2N6	VS305
2R	VS336
2U6	VS312 or VS323
2Z3	VS324
4F	VS004
4F2H	VS138
4F4H	VS103
4F5H	VS139
4F6H	VS140
4FH	VS106
4FP1	VS009
4TZ60	VS064
6 Ign.	VS006S
6 Tel.	VS006C
7	VS074

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Burgess (cont'd)	
8R	VS070
17GD60	VS022
21R	VS236
120	VS735
130	VS335 or VS1335
220	VS736
230	VS336
422	VS134
432	VS142
532	VS133
920	VS734
930	VS334 or VS1334
23/0ST	VS130
4156	VS102
5156SC	VS131
5308	VS112
5360	VS028
5540	VS029
10308SC	VS127W
10308SCpr	VS127W
21308SC	VS157W
Eveready	
A100	VS336
D99	VS036 or VS1336
E1	VS143
E9	VS313 or VS334
E12	VS144
E91	VS1334
E93	VS1335
E126	VS327 or VS328
E132	VS148
E133	VS149 or VS1149
E133N	VS149
E146	VS312 or VS323
E163	VS163
E164	VS164
E165	VS165

Type to be Replaced	Replace by RCA Type
Eveready (cont'd)	
E177	VS309A
E233	VS400
E400	VS145
E401	VS401
E630	VS147
E640	VS150
W350	VS114
W352	VS100
W353	VS141
W354	VS101
W356	VS136
W357	VS138
W359	VS014
W363F	VS127W
W364F	VS157W
6 "Gray Label"	VS006C
6 "Ignitor"	VS006S
206	VS327 or VS328
216	VS312 or VS323
226	VS300A
228	VS329
239	VS304
243	VS324
246	VS305
266	VS322
276	VS306
333	VS1149
409	VS040C
411	VS083
412	VS084
413	VS085
415	VS086
416	VS318
437	VS217
455	VS055
457	VS082
467	VS016
468	VS016
477	VS218
479	VS219

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Eveready (cont'd)	
482	VS013
484	VS012
490	VS090
493	VS093
495	VS316
504	VS704
505	VS705
509	VS040C
510S	VS040S
515	VS034A or VS1334
523	VS1149
528	VS323 or VS312
635	VS335 or VS1335
703	VS133
706	VS103
707	VS315
713	VS129
715	VS139
716	VS140
717	VS065
718	VS010
720	VS069
724	VS068
726	VS072
727	VS059
729	VS064
731	VS317
735	VS106
736	VS067
738	VS015
742	VS004
744	VS009
746	VS067
750	VS134
751	VS142
752	VS047
753	VS019
755	VS050
756	VS057W
757	VS058

Type to be Replaced	Replace by RCA Type
Eveready (cont'd)	
759	VS022
761T	VS130
762S	VS112
763	VS102
773	VS029
776	VS119
778	VS131
781	VS028
785	VS060
815	VS734
835	VS735
850	VS736
904	VS073 or VS1073
912	VS074
915	VS034A or VS1334
935	VS035A or VS1335
950	VS036 or VS1336
960P	VS070
964	VS236
1015	VS334 or VS1334
1461	VS039
2506	VS301
2709	VS326
2713	VS325
2731	VS321
Mallory, P. R.	
M2	VS068
M3	VS067
M4	VS004
M6	VS009
M8	VS129
M9	VS065
M11	VS141
M13F	VS036 or VS1336
M13P	VS736
M13R	VS336

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Mallory, P. R. (cont'd)	
M14F	VS035A or VS1335
M14P	VS735
M14R	VS335 or VS1335
M15F	VS034A or VS1334
M15P	VS734
M15R	VS334 or VS1334
M18	VS069
M19	VS072
M20	VS236
M23	VS070
M24F	VS074
M26	VS315
M200	VS016
M201	VS055
M202	VS013
M203	VS082
M204	VS090
M205	VS015
M206	VS014
M207	VS012
M208	VS083
M210	VS085
M211P	VS218
M212	VS217
M213	VS086
M214	VS219
M215	VS084
M216	VS316
M217	VS318
M400	VS047
M401	VS019
M405	VS057W
M406	VS058
M413	VS022
M504	VS704
M505	VS705
M900	VS106
M902	VS103
M903	VS139
M904	VS140
M905	VS006S
M906	VS006C
M907	VS039
M908	VS040C
M910F	VS073 or VS1073
M914	VS006S
M915	VS040S
M916	VS040C
M918	VS317
M1600	VS300A
M1602	VS305
M1603	VS306
M1604	VS312 or VS323
M1605	VS322
M1611	VS327
M1900	VS304
Mn1300	VS036 or VS1336
Mn1306	VS1149
Mn1400	VS1335 or VS035A
Mn1500	VS1334 or VS034A
Mn1604	VS323 or VS312
Mn2400	VS074
Mn9100	VS1073 or VS073
RM1	VS143
RM1R	VS143
RM12	VS144
RM12R	VS144
RM400	VS145
RM400R	VS145
RM401	VS401
RM630	VS147
RM640	VS150
TR126	VS327 or VS328
TR132R	VS148
TR133	VS149 or VS1149
TR133R	VS149
TR146	VS312 or VS323
TR163	VS163
TR164	VS164
TR165	VS165

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Mallory, P. R. (cont'd)	
TR165R	VS165
TR177	VS309A
TR233	VS400
ZM9	VS313
Marathon	
6T	VS006C
66	VS006S
111	VS035A or VS1335
113	VS335 or VS1335
121	VS036 or VS1336
122	VS036 or VS1336
123	VS336
131	VS073 or VS1073
133	VS073 or VS1073
170	VS034A or VS1334
173	VS313, VS334, or VS1334
180	VS074
490R	VS040C
490RR	VS040C
491	VS106
496S	VS040S
640	VS039
640EF	VS039
896	VS317
901	VS138
902	VS103
903	VS139
904	VS140
1600A	VS300A
1601	VS301
1602	VS305
1603	VS306
1604	VS312 or VS323
1605	VS322
1610	VS324

Type to be Replaced	Replace by RCA Type
Marathon (cont'd)	
1611	VS327 or VS328
1900	VS304
3001	VS010
3002	VS068
3003	VS067
3004	VS004
3006	VS009
3007	VS067
3008	VS129
3009	VS065
3011	VS141
3018	VS069
3019	VS072
3020	VS236
3023	VS070
3026	VS315
4200	VS016
4201	VS055
4202	VS013
4203	VS082
4204	VS090
4205	VS015
4206	VS014
4207	VS012
4208	VS083
4210	VS085
4211	VS218
4212	VS217
4213	VS086
4214	VS219
4215	VS084
4216	VS316
4217	VS318
4220	VS704
4221	VS705
4311	VS218
5400	VS047
5401	VS019
5403	VS050
5405	VS057W

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Marathon (cont'd)	
5406	VS058
5413	VS022
5415	VS119
5424	VS022
5425	VS064
5428	VS059
5431	VS060
6700	VS101
6701	VS100
6703	VS136
6704	VS134
6705	VS142
6706	VS133
6708	VS131
6709	VS112
6710	VS102
6711	VS114
6712	VS130
6713	VS029
6714	VS028
6715	VS157W
6716	VS127W
6722	VS093
Montgomery Ward	
6	VS035A or VS1335
21	VS004
23	VS336
24	VS002
26	VS067
27	VS236
28	VS141
29	VS065
33	VS019
37	VS047
40	VS218
41	VS014
42	VS013
43	VS016
46	VS090

Type to be Replaced	Replace by RCA Type
Montgomery Ward (cont'd)	
47	VS217
49	VS012
51	VS022
54	VS119
55	VS219
57	VS022
62-103	VS144
62-104	VS164
62-105	VS163
62-122	VS313
67	VS313, VS334, or VS1334
72	VS058
79	VS055
82	VS057
84	VS131
86	VS084
87	VS085
92	VS305
93	VS306
95	VS304
96	VS300A
100	VS313, VS334, or VS1334
120	VS086
121	VS400
123	VS312 or VS323
124	VS312 or VS323
2338	VS073 or VS1073
2340	VS036
2341	VS035A or VS1335
2342	VS034A or VS1334
13250	VS006S
13255	VS039
13257	VS040C
13274	VS317

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Philco	
K	VS074
P4F	VS040C
P4F4R	VS009
P5B	VS029
P9	VS313, VS334, or VS1334
P15F	VS034A or VS1334
P15R	VS313, VS334, or VS1334
P26	VS315
P31	VS065
P38	VS067
P45	VS013
P60B6F6	VS047
P60D11L	VS022
P64	VS038
P67	VS016
P77	VS236
P88	VS306
P91	VS300A
P94	VS004
P100	VS067
P104	VS015
P105	VS055
P132	VS090
P144	VS217
P146	VS312 or VS323
P149	VS218
P150	VS086
P175	VS218
P176	VS219
P178	VS305
P190	VS316
P210	VS014
P217	VS318
P305	VS012
P326	VS119
P350	VS050
P364	VS064
P371	VS057W
P612	VS084
P630	VS147

Type to be Replaced	Replace by RCA Type
Philco (cont'd)	
P640	VS150
P696	VS400
P841A	VS019
P900	VS035A or VS1335
P903	VS335 or VS1335
P907	VS036
P920	VS336
P1306	VS1149
P1400	VS035A or VS1335
P1500	VS034A or VS1334
P1604	VS312 or VS323
P1605	VS322
P9100	VS073 or VS1073
6	VS006S
6 Tel.	VS006C
Ray-O-Vac	
A1	VS010
A2	VS068
A3	VS067
A4	VS004
A6	VS009
A7	VS067
A210	VS085
A400	VS047
A710	VS102
A716	VS127W
AB82	VS022
1LP	VS035A or VS1335
2LP	VS036 or VS1336
5LP	VS036 or VS1336
6 Ign.	VS006S
6 Ign. S	VS006S
6 Tel. C	VS006C
7LP	VS034A or VS1334
7R	VS034A or VS1334
8	VS129

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Ray-O-Vac (cont'd)	
9	VS065
11	VS141
13	VS336
14	VS335 or VS1335
15	VS334 or VS1334
15M	VS313 or VS1334
18	VS069
19	VS072
20	VS236
23	VS070
26	VS315
110LP	VS735
200	VS016
201	VS055
202	VS013
203	VS082
204	VS090
205	VS015
206	VS014
207	VS012
208	VS083
210LP	VS736
211M	VS218
211P	VS218
212	VS217
213	VS086
214	VS219
215	VS084
217	VS318
220	VS704
221	VS705
400	VS074
401	VS019
403	VS050
405	VS057W
406	VS058
413	VS022
415	VS119
425	VS064
428	VS059

Type to be Replaced	Replace by RCA Type
Ray-O-Vac (cont'd)	
431	VS060
641	VS039
700	VS101
701	VS100
703	VS136
704	VS134
705	VS142
706	VS133
708	VS131
709	VS112
710LP	VS734
711	VS114
712	VS130
713	VS029
714	VS028
715	VS157W
716	VS073 or VS1073
722	VS093
724	VS127W
900	VS106
901	VS138
902	VS103
903	VS139
904	VS140
918	VS317
941	VS040C
941RR	VS040C
941SC	VS040S
1304M	VS149 or VS1149
1600	VS300A
1600M	VS300A
1601	VS301
1602	VS305
1603	VS306
1604	VS312 or VS323
1604M	VS312 or VS323
1605	VS322
1606	VS309A
1611M	VS327 or VS328
1810M	VS329

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Ray-O-Vac (cont'd)	
1900	VS304
R401	VS401
Sears (Homart)	
2259	VS106
4650	VS036 or VS1336
4653	VS034A or VS1334
4656	VS074
4659	VS035A or VS1335
4662	VS036 or VS1336
4700	VS039
4701	VS006S
4702	VS040C
4702ST	VS040S
4707	VS317
5005	VS130
6312	VS022
6401	VS047
6407	VS019
6408	VS050
6409	VS057W
6410	VS058
6415	VS163
6416	VS312 or VS323
6417	VS312 or VS323
6418	VS300A
6419	VS306
6420	VS301
6421	VS300A
6422	VS327 or VS328
6425	VS329
6430	VS004
6440	VS067
6441	VS067
6442	VS236
6444	VS065
6445	VS336
6446	VS335 or VS1335
6447	VS313, VS334, or VS1334

Type to be Replaced	Replace by RCA Type
Sears (Homart) (cont'd)	
6448	VS313, VS334, or VS1334
6451	VS009
6460	VS014
6461	VS013
6462	VS012
6465	VS090
6470	VS219
6480	VS016
6482	VS218
6485	VS086
8212	VS084
8213	VS085
Usalite	
AB666	VS022
AB677	VS047
#6GP	VS006S
6 Ign.	VS006S
6T	VS006C
74	VS035A, VS335, or VS1335
74P	VS735
75LP	VS036 or VS336
75P	VS736
77	VS336, VS036, or VS1336
603	VS135
606	VS029
613	VS131
616	VS103
620	VS015
621	VS014
623	VS112
624	VS012
634	VS004
634S	VS106
638	VS010
639	VS009
640	VS013
641	VS039
650	VS127W

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Usalite (cont'd)	
660	VS157W
680	VS019
681	VS057W
682	VS058
683	VS067
684	VS236
685	VS065
688	VS067
690	VS101
691	VS100
692	VS131
693	VS112
694	VS102
695	VS130
696	VS140
720	VS139
741	VS317
745	VS055
767	VS016
768	VS217
769	VS090
777	VS218
908	VS034A, VS334, or VS1334
908P	VS734
911	VS073 or VS1073
934	VS040C
934R	VS040C
934S	VS040S
972	VS028
1005	VS133
1090	VS142
1095	VS134
Wizard (Western Auto)	
3B6110	VS004
3B6145	VS009
3B6228	VS014
3B6241	VS013
3B6260	VS090

Type to be Replaced	Replace by RCA Type
Wizard (Western Auto) (cont'd)	
3B6462	VS058
3B6464	VS050
7D7003	VS067
7D7009	VS065
7D7013	VS036, VS336, or VS1336
7D7014	VS035A, VS335, or VS1335
7D7015	VS034A, VS334, or VS1334
7D7024	VS074
7D7200	VS016
7D7201	VS055
7D7211	VS218
7D7401	VS019
7D7405	VS057W
7D7413	VS022
7D7600	VS300A
7D7602	VS305
7D7604	VS312 or VS323
7D7905	VS006S
7D8013	VS036, VS336, or VS1336
7D8014	VS035A, VS335, or VS1335
7D8015	VS034A, VS334, or VS1334
7D8020	VS236
7D8907	VS039
7D8908	VS040C
7D8915	VS040S
7D8918	VS317
7D9013	VS036 or VS336
7D9015	VS313 or VS1334
7D9304	VS149
7D9604	VS312 or VS323
7D9611	VS327 or VS328

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A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Zenith	
N	VS073 or VS1073
Z1	VS070
Z2NL	VS036 or VS1336
Z4NL	VS336
Z5	VS236
Z5M	VS704
Z6M	VS705
Z7	VS035A, VS335, or VS1335
Z8	VS034A, VS334, or VS1334
Z9	VS313, VS334, or VS1334
Z11M	VS083
Z12M	VS084
Z13M	VS085
Z67	VS016
Z83A	VS067
Z90	VS219
Z94	VS004
Z146	VS312 or VS323
Z216	VS312 or VS323
Z226	VS300A
Z276	VS306
Z415	VS086

Type to be Replaced	Replace by RCA Type
Zenith (cont'd)	
Z437	VS217
Z450	VS072
Z455	VS055
Z457	VS082
Z477	VS218
Z490	VS090
Z495	VS316
Z530	VS012
Z550	VS012
Z707	VS315
Z736	VS067
Z750	VS065
Z775	VS060
Z783	VS013
Z802	VS022
Z909	VS058
Z912	VS074
Z916	VS040C
Z962	VS059
Z979	VS019
Z985	VS047
Z990	VS119

RCA MINIATURE LAMPS

TYPE NO.	VOLTS	AMPS	BULB	BASE	BEAD COLOR
FLASHLIGHT					
PR-2	2.4	0.5	B-3½	Min. Flg.	Blue
PR-3	3.6	0.5	B-3½	Min. Flg.	Green
PR-6	2.5	0.3	B-3½	Min. Flg.	Brown
13	3.8	0.3	G-3½	Min. Scr.	Green
14	2.5	0.3	G-3½	Min. Scr.	Blue
112	1.1	0.22	TL-3	Min. Scr.	Pink
222	2.2	0.25	TL-3	Min. Scr.	White
233	2.3	0.27	G-3½	Min. Scr.	Purple
RADIO PANEL AND MISCELLANEOUS					
40	6.8	0.15	T-3¼	Min. Scr.	Brown
41	2.5	0.5	T-3¼	Min. Scr.	White
42	3.2	0.5	T-3¼	Min. Scr.	Green
43	2.5	0.5	T-3¼	Min. Bay.	White
44	6-8	0.25	T-3¼	Min. Bay.	Blue
45	3.2	0.5	T-3¼	Min. Bay.	Green
46	6-8	0.25	T-3¼	Min. Scr.	Blue
47	6-8	0.15	T-3¼	Min. Bay.	Brown
48	2.0	0.06	T-3¼	Min. Scr.	Pink
49	2.0	0.06	T-3¼	Min. Bay.	Pink
50	6-8	0.2	G-3½	Min. Scr.	White
51	6-8	0.2	G-3½	Min. Bay.	White
55	6-8	0.4	G-4½	Min. Bay.	White
291	2.9	0.17	T-3¼	Min. Bay.	White
292	2.9	0.17	T-3¼	Min. Scr.	White
1490	3.2	0.16	T-3¼	Min. Bay.	White
1891	12-16	2 C.P.	T-3¼	Min. Bay.	
1892	14	1 C.P.	T-3¼	S.C. Bay.	

B-3½ Bulb
Min. Flange Base

TL-3 Bulb
Min. Screw Base

G-3½ Bulb
Min. Screw Base

T-3¼ Bulb
Min. Screw Base

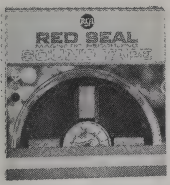
G-3½ Bulb
Min. Bayonet Base

G-4½ Bulb
Min. Bayonet Base

T-3¼ Bulb
Min. Bayonet Base

RCA SOUND TAPE AND AUDIO DEVICES

RCA offers a wide variety of Magnetic Recording Sound Tape to meet the requirements of both the broadcaster and the home recordist.



RED SEAL

For superb stereophonic and monophonic recordings, use RCA Red Seal recording tape—the recording tape used for RCA Victor Masters and for pre-recorded tape. Quality controlled and tested during every step of the manufacturing process to provide you with the finest recording your equipment is capable of producing.

A new type numbering system for RCA tape on seven-inch, or smaller, reels makes it easy for you to order Red Seal Tape. The type number is composed of three parts corresponding to the thickness of the base material, the type of base, and the length.

The thickness of the base material is indicated by:

5 = 0.5 mil
10 = 1.0 mil
15 = 1.5 mil

The type of base is indicated by:

A = Acetate
M = "Mylar"*
TM = Tensilized "Mylar"

The length is indicated by:

3 = 300 feet
6 = 600 feet
9 = 900 feet
12 = 1200 feet
18 = 1800 feet
24 = 2400 feet

RCA SOUND TAPE AND AUDIO DEVICES (Cont'd)

For example, Type 15A12 defines a reel of 1.5-mil, acetate-base tape, 1200 feet long. Similarly Type 5TM24 defines a reel of 0.5-mil, Tensilized "Mylar"-base tape, 2400 feet long.

*DuPont Registered Trade Mark

PROFESSIONAL GRADE

Professional Grade RCA Magnetic Recording Sound Tape is designed to provide high-quality recordings under extremely difficult conditions. Tough and durable, professional-grade tape is available in 1½-mil thickness only on either acetate or "Mylar" base. Reel size, tape length, and base material are identified by the following type numbers:

ACETATE (PLASTIC) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
15A-1.5	3	150
15A-3	4	300
15A-6	5	600
15A-12	7	1200
265C1	——	2400
266C1	10½	2400
267C1	10½	2400
268C1	10½	2400

"MYLAR" (POLYESTER) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
15M-6	5	600
15M-12	7	1200
280C1	——	2400
281C1	10½ ●	2400
282C1	10½ ♦	2400
283C1	10½ ■	2400

LONG-PLAY

Long-Play RCA Magnetic Recording Sound Tape is designed to provide longer recording time on either "Mylar" or acetate base than Professional-Grade and has the same high quality recording characteristics. Long-Play tape is 1-mil thick. Reel size, tape length, and base material are identified by the following type numbers:

ACETATE (PLASTIC) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
10A-9	5	900
10A-18	7	1800
269C1	——	3600
270C1	10½ ●	3600
271C1	10½ ♦	3600
272C1	10½ ■	3600

"MYLAR" (POLYESTER) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
10M-2.25	3	225
10M-9	5	900
10M-18	7	1800
276C1	——	3600
277C1	10½ ●	3600
278C1	10½ ♦	3600
279C1	10½ ■	3600

●NAB Metal Reel
■NAB Plastic Reel
♦EIA Plastic Reel.

EXTRA-LONG-PLAY

Extra-Long-Play RCA Magnetic Recording Sound Tape is designed to provide extra-long running time. On 7" reels, running time is up to 4 hours on dual-track recordings. Extra-Long-Play tape is available on either ½-mil "Mylar," or ½-mil Tensilized "Mylar," which has twice the tensile strength of ½-mil "Mylar."

"MYLAR" (POLYESTER) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
5M-12	5	1200
5M-24	7	2400

TENSILIZED "MYLAR" BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
5TM-3	3	300
5TM-6	4	600
5TM-12	5	1200
5TM-24	7	2400
273C1	10½●	4800
274C1	10½◆	4800
275C1	10½■	4800

VIBRANT SERIES

Vibrant Series RCA Magnetic Recording Sound Tape is especially designed for the home recordist. This tape can provide high-quality, full-frequency recordings on both stereo and monaural equipment.

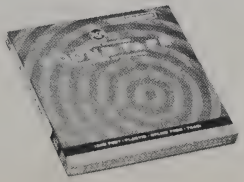
ACETATE (PLASTIC) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
701C1	5	600
702C1	7	1200
703C1	5	900●
704C1	7	1800●

"MYLAR" (POLYESTER) BASE

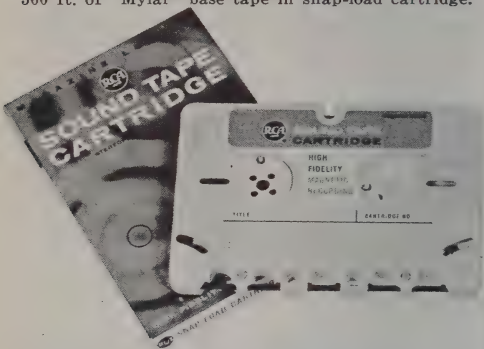
RCA Type	Reel Diamete (inches)	Tape Length (feet)
707C1	5	900●
708C1	7	1800●
709C1	5	1200□
710C1	7	2400□

● 1-mil Tape
□ ½-mil Tensilized



RCA SNAP-LOAD CARTRIDGE

Pre-threaded, magazine-loaded tape cartridge. 264C1—560 ft. of "Mylar" base tape in snap-load cartridge.



Special 3-inch Reel for use with RCA Cartridge Tape Recorder		
RCA Type	**Reel Diameter Inches**	**Tape Length Feet**
M10M-2.75	$2\frac{15}{16}$	275

TAPE ACCESSORIES

Type	Description
EB-3	3″ Empty Box (formerly No. 518C1)
EB-4	4″ Empty Box (formerly No. 520C1)
EB-5	5″ Empty Box (formerly No. 508C1)
EB-7	7″ Empty Box (formerly No. 509C1)
EKR-3	Special Reel & Box for RCA Cartridge Tape Recorder
EPR-3	3″ Reel & Box (formerly No. 519C1)
EPR-4	4″ Reel & Box (formerly No. 521C1)
EPR-5	5″ Reel & Box (formerly No. 506C1)
EPR-7	7″ Reel & Box (formerly No. 507C1)
501C1	5-Reel Tape Chest for 5″ Reels
510C1	Empty Box for Snap-Load Cartridge
511C1	½″ x 100″ Splicing Tape
512C1	½″ x 150″ Splicing Tape
513C1	¾″ x 100″ Splicing Tape
514C1	¾″ x 150″ Splicing Tape
515C1	¼″ x 100″ Splicing Tape
516C1	Tape Recorder Head Demagnetizer
517C1	12-Reel Tape Shelf

RCA SPECIAL COMMUNICATIONS PRODUCTS

Two-Way Radios

Mark VIII Radio-Phone

Description: Inexpensive two-way radio for operation in the 27-megacycle Citizens Band. Operates on any of nine crystal-controlled transmitting and receiving channels. Transceiver has built in ac power supply. Separate 6- or 12-volt dc power supplies available for mobile applications. Includes squelch control to eliminate background noise. The basic ac unit is supplied with an internal speaker and plug-in microphone. Highly selective superheterodyne receiver with tunable control dial permits reception of any desired channel. 5-watt* transmitter.

Features: • frequency range 26.965-27.225 Mc • transmitter power output 3 watts (nominal) • audio output 2½ watts • receiver sensitivity (6 db signal to noise ratio) 0.4 microvolt

W 11¼", H 3½", D 8"; Weight 8 lbs. (including microphone)

*Maximum allowable plate input power to final radio-frequency stage as defined by FCC regulations.

RCA SPECIAL COMMUNICATIONS PRODUCTS

Personal-Com 300

Description: A truly practical 27-Mc portable transceiver, this lightweight unit operates from a self-contained rechargeable battery. Completely self contained including superheterodyne receiver, for operation in the popular 27-Mc Citizens Band. No license required to operate and provides excellent voice reproduction. Designed for one-hand operation, the "volume-on-off" switch and "push-to-talk" button are placed so that they can be operated with the thumb of either hand. Ideal for business or personal use on construction sites, loading platforms, farms, camps, or on board a boat.

Features: • transmitter power input 90 mw • frequency range 26.975-27.225 Mc • speaker 2" diameter, 100-ohm voice coil • crystals: subminiature, tolerance 0.005%

H 7⅞", W 2⅞", D 1⅞"; Weight 1 lb., 1½ oz. (with battery)

RCA SPECIAL COMMUNICATIONS PRODUCTS

Citizens Band Antennas

BASE STATION ANTENNAS

17628—Provides excellent, low angle, line-of-sight transmission. Achieves a directional, vertically polarized radiation pattern. For operation with 52-ohm cable.

• 7 db forward gain over ground plane • 5X power gain • 13.5 db front to back ratio

17629—Half-wave length antenna ideal for fixed station use. Can be roof or side mounted on all types of buildings. Omnidirectional, it lowers the angle of radiation and offers a very low standing wave ratio. For operation with 52-ohm cable.

17630—An isolating skirt for Model MI-555501-A. Mounts 9′ below antenna to lower angle of radiation and minimize effects of mounting structure.

17666—Features a shunt fed, grounded radiator with very low noise pickup. Its low radiation angle intensifies signal pattern.

555500—Omnidirectional antenna will handle up to 3 kw. Vertically polarized, for use with any amateur fixed station receiver-transmitter requirement.

555501-A—The most popular of all Citizens Band ground plane antennas. Radials are bent at base clamp and offer proper angle for 50-ohm match.

MOBILE ANTENNAS

17624—Cowl mounted mobile antenna with continuously loaded 48″ fiberglass whip provides excellent radiation pattern. Designed to substitute for conventional one-quarter-wave whips as well as base-loaded and center-loaded antennas.

17624-A—Four-foot continuously loaded fiberglass whip with white plastic covering. 50-ohm match.

17670—Equipped with solderless connectors and only 44″ long, this antenna can be mounted entirely from the outside of the vehicle.

17668—Center loaded cowl mount antenna provides excellent horizontal pattern and eliminates fading when changing direction. Can be mounted on fender, cowl, or rear deck. Length varies between 43″ collapsed and 60″ extended.

MOBILE ANTENNAS (*Cont'd*)

17669—Trunk lid mounting antenna with center loaded whip. Small mounting holes are hidden under trunk lid recess.

555578—This popular model is adaptable to virtually all American and foreign cars. Complete bumper mounting antenna assembly with easily adjusted mounting links eliminates the need for drilling holes.

555579—A complete antenna kit for rear or side mounting and equipped with a special alloy, cadmium plated spring and having a flexible center conductor.

MARINE ANTENNAS

17667—Complete antenna system made out of corrosion resistant materials with universal mounting lay-down assembly. Its flexible 42" whip section will bend without damage. Height adjustable between 107" and 71".

555580—Complete antenna kit for deck or cabin mounting. Consists of base, spring, 108" stainless steel whip, cable, and gutter clip. Chrome plated base with impact resistant plastic insulator, mounting pads, and hardware. Furnished with cable and connectors.

PORTABLE OR TEMPORARY ANTENNAS

17625—Gutter-clamp antenna easily snaps on rain gutters of automobiles. Heavy spring assures positive grip—can't shake off regardless of road conditions.

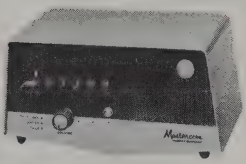
17626—Portable antenna with 43" stainless steel whip for mounting directly on transceivers. Extremely efficient for short range communications. Covers a frequency range of 25-29 Mc.

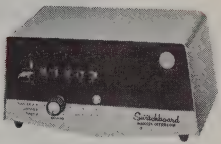
17627—Base-loaded portable whip antenna for mounting on Citizens Band transceivers. Vinyl covered loading coil wound into road reduces length without loss of flexibility.

RCA SPECIAL COMMUNICATIONS PRODUCTS

Intercoms

"MASTERCOM"





"SWITCHBOARD"

"MASTERCOM" (Master Intercom)

Description: Extremely sensitive amplifier, ideal for use in home as well as in factory or office. High sensitivity permits picking up voices from across the room.

Features: • volume control with ac "on-off" switch • five individual station-selector slide switches • three-position talk switch and system-selector switch for either all-master or master-to-remote hook-up • 110-120 volts ac or dc, 50 or 60 cycles • power output 2½ watts • power consumption 20 watts • speaker: 3½" Alnico V magnet, 3.2-ohm voice coil

H 4⅛", W 8⁷⁄₁₆", D 4⁹⁄₁₆"

"SWITCHBOARD" (Master Intercom)

Description: An all-new master intercom station that offers many features of a telephone switchboard.

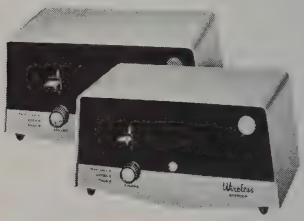
Features: • master can speak to any one, several, or all remote intercom stations • "switchboard" feature enables master to set-up direct remote-to-remote communications • remote stations can originate calls to the "switchboard" master at will • master can monitor any one or all remote stations at will • master can set up any one or more remotes to monitor any station in system • "busy" light flickers whenever conversations take place • 110-120 volts ac or dc, 50 or 60 cycles • power output 2½ watts • power consumption 20 watts • speaker 3½" Alnico V magnet, 3.2-ohm voice coil

H 4⅛", W 8⁷⁄₁₆", D 4⁹⁄₁₆"

RCA SPECIAL COMMUNICATIONS PRODUCTS

"REMOTE STATION"

Description: Can be used with either the RCA "Mastercom" or "Switchboard" unit. For private or non-private operation. When private, call switch must be used, without interception by master. When non-private, remote may reply to master from a distance without using switch. "Remote Station" can also be installed so that the call switch is inoperative and, thereby, unable to originate calls.



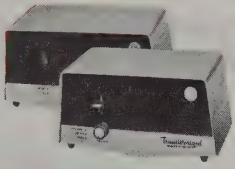
"WIRELESS" Intercom System

Description: Makes use of existing power lines for transmission of voice. Does not require wires nor installation—"just plug in and talk." Comes complete with two identical stations. Several additional stations may be added to any system.

Features: • two- or three-wire line selector switch to match every type of house wiring • advanced circuitry eliminates interference from power lines • uses as little current as a night lamp • neon pilot light indicates when in operation • 105-125 volts ac or dc, 50 or 60 cycles • power consumption 30 watts • audio power output 2½ watts • speakers 3½" Alnico V, 3.2-ohm voice coil • frequency 200 Kc

H 4⅛", W 8 7/16", D 4 9/16"

RCA SPECIAL COMMUNICATIONS PRODUCTS

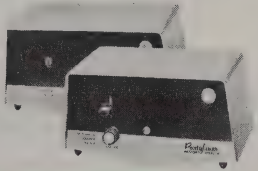


"TRANSISTORIZED" Intercom System

Description: Can be installed anywhere independent of line current. Operates on four standard 1½-volt penlight batteries. Instantaneous talk—no warm-up necessary. Provides exceptionally long battery life due to master's special battery-saver "standby-listen-talk" switch. Master also includes volume control. Remote equipped with a "listen-call" switch. System comes complete with master, remote, and 50 feet of cable.

Features: • power output 8 watts • power gain 70 db • negative feedback for stability and low distortion 6 db • input and output impedance 3.2 ohms

H 4⅛", W 8$\frac{7}{16}$", D 4$\frac{9}{16}$"



"PARTYLINER" (Intercom System)

Description: Combines smart, new styling with outstanding performance. Economically priced to fit everyone's budget. As many as four remotes can be added to the system. Remotes can answer call without operating switch and can be closed for privacy but still receive calls. Ideal for use in factories, warehouses, and loading docks.

Features: • range of master to any remote is about 500 feet • master has its own volume control with "on-off" switch • heavy-duty, 3-position "talk" switch • pilot light • extremely low hum and noise level • 110-120 volts ac or dc, 50 or 60 cycles • power consumption 20 watts • power output 2.5 watts • speaker master and remote both contain a 3½" Alnico V, 3.2-ohm voice coil

H 4⅛", W 8$\frac{7}{16}$", D 4$\frac{9}{16}$"

RCA SPECIAL COMMUNICATIONS PRODUCTS

Sound Amplifiers and Systems

CONSUL SERIES

CONSUL 12 (12-Watt Public Address Amplifier)

Description: Dependable, high-quality sound reproduction. For use in low-power public address and paging systems, garages, taverns, churches, amusement parks, and auctions.

Features: • rated power 12 watts • frequency response 30-20000 cps, ± 2 db • inputs 1 mic., 2 aux. • hum and noise below rated output: fundamental —75 db, at mic. input —55 db, at phono input —75 db • gain: mic. input 117 db, phono input 84 db • sensitivity: mic. input 5 millivolts, phono input 0.3 volt • output impedance 4, 8, and 16 ohms (plus speaker plug-in socket), and output for line or booster amplifier and tape recorder

Controls: channel 1 gain, aux. 1 and 2 gain (fader), master volume, tone (4-pos. sw.), power on-off, pilot light.

H 6", W 15⅛", D 10¾"; Weight 21 lbs.

RCA SPECIAL COMMUNICATIONS PRODUCTS

CONSUL 35 (35-Watt Public Address Amplifier)

Description: Extremely versatile, medium power amplifier designed for simple operation and reliable performance, and excellent for speech reproduction, music, or paging in auditoriums, ballrooms, churches, and schools.

Features: • rated power 35 watts • frequency response 20-20000 cps, ± 2 db • inputs 2 mic., 3 aux., 1 mag. phono • hum and noise below rated output: fundamental —80 db, at mic. input —55 db, at phono input —75 db • gain: mic. input 124 db, phono input 89 db • sensitivity: mic., input 4 millivolts, phono input 0.3 volt • output impedance 4, 8, 16, and 150 ohms (plus two speaker sockets), and 25 volts balanced, 70.7 volts unbalanced outputs

Controls: • channel 1 gain, channel 2 and 3 mixer fader, master volume, bass, treble, power on-off, pilot light.

H 6", W 15⅛", D 10¾"; Weight 26 lbs.

RCA SPECIAL COMMUNICATIONS PRODUCTS

CONSUL 100 (100-Watt Public Address Amplifier)

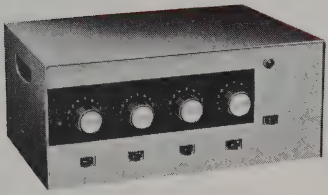
Description: Highly efficient, high-power amplifier designed to provide maximum sound amplification in hospitals, industrial plants, auditoriums, hotels, and churches.

Features: • rated power 100 watts • frequency response 20-20000 cps, ± 2 db • inputs 2 mic., 2 aux., 1 mag. phono • hum and noise below rated output: fundamental —85 db, at mic. input —60 db, at phono input —80 db • gain: mic. input 128 db, phono input 94 db • sensitivity: mic. input 4 millivolts, phono input 0.3 volt • output impedance: 4, 8, 16, and 150 ohms (plus two speaker sockets), and 25 volts balanced, 70.7 volts unbalanced outputs

Controls: channel 1 gain, channel 2 and 3 mixer-fader, master volume, bass, treble, power on-off, pilot light.

H 6", W 18¼", D 11¾"; Weight 38 lbs.

RCA SPECIAL COMMUNICATIONS PRODUCTS



CONSUL COMBINATION (Mixer/Preamplifier)

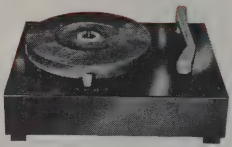
Description: Exceptional unit, designed for use with any sound system, fulfilling the need for additional channels and increasing the flexibility of sound and recording installations. Completely self-contained, the Consul Combination permits remote control of multiple program sources.

Features: • rated output: 0 dbm, at less than 0.2% total harmonic distortion; 7 volts, at 1% total harmonic distortion • frequency response 20-15000 cps, + 0 db (—) —0.5 db • inputs 4 mic., 2 aux., 1 mag. phono • hum and noise at 7 volt output —85 db (fundamental) • gain: mic. inputs 60 db, aux. inputs 28 db • sensitivity: mic. inputs 4 millivolts, aux. inputs 160 millivolts • output: low impedance cathode-follower, min. recommended load impedance: 50 ohms

Controls: gain controls for channels 1, 2, 3, 4; mic. mag. switch for channel 1, mic. aux. switches for channels 2 and 3, mic. master switch for channel 4, power on-off, pilot light, switched aux. ac power outlet.

H 5⅛", W 11½", D 5½"; Weight 11 lbs.

RCA SPECIAL COMMUNICATIONS PRODUCTS



CONSUL PHONOGRAPH TOP

Description: Designed for the rugged dependability required of all public address system components. Will mount directly on top of the amplifier, or operate remotely. It provides four playback speeds and has a built-in 45 rpm adaptor.

Features: • equipped with turnover cartridge for playing 78 rpm standard play and long play monophonic recordings • ceramic-type cartridge for maximum resistance to high humidity and temperature • tonearm can be secured to the base for safer portability • employs standard stylii for easy replacement in the field • separate power switch to turn phonograph on and off

Panel Lock Covers

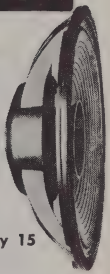
Features: • attractive, sturdy metal panel covers, complete with lock, for each of the Consul series amplifiers • panel light may be viewed at all times with cover in place • easy installation; no screws or adjustments necessary • takes only seconds to insert or remove covers from cage

RCA SPECIAL COMMUNICATIONS PRODUCTS

High-Fidelity, Multi-Purpose Loudspeakers

Envoy 8

Envoy 12



Envoy 15

ENVOY SERIES

Description: Whatever your sound requirements, RCA's new multipurpose Envoy Series Loudspeakers provide a truly practical solution to your problem. The crisp, wide-range response of these high-quality speakers provides realistic performance from your high-fidelity, stereo, or monophonic equipment. For public address applications, the Envoy Series Loudspeakers deliver room-filling sound faithfully reproduced from record, tape, or voice input. Their low-silhouette frames permit installation in walls or ceilings, making them ideal for building into new construction.

Features: • dual cone construction • edgewise-wound ribbon-wire voice coil • sealed polyester reinforced fiberglass coil form • long, medium-diameter voice coils • heavy-duty die-cast frames • fungus-proofed cones and spiders.

Envoy 8—Specifications: • frequency response 55-13000 cps • EIA sensitivity rating 43 db cone resonant frequency 75 cps • impedance 8 ohms • peak power handling capacity 40 watts • diameter: voice coil 2", speaker 8⅜" • depth 3½"

Envoy 12—Specifications: • frequency response 40-13000 cps • EIA sensitivity rating 45 db cone resonant frequency 65 cps • impedance 8 ohms • peak power handling capacity 40 watts • diameter: voice coil 2", speaker 12¼" • depth 3½"

Envoy 15—Specifications: • frequency response 35-13000 cps • EIA sensitivity rating 48 db • cone resonant frequency 50 cps • impedance 8 ohms • peak power handling capacity 40 watts • diameter: voice coil 2", speaker 15⅛" • depth 6 1/32"

RCA SPECIAL COMMUNICATIONS PRODUCTS

General Purpose Microphones

ATTACHÉ SERIES

508

606

Attaché 508 (Dynamic Type)

Description: Attractive, traditionally styled pressure-type dynamic high-impedance microphone combining compactness and sturdiness with high-level output. Excellent reproduction of both music and speech. Designed especially for public-address use in hotels, theatres, auditoriums, schools, and churches.

Features: • frequency response 50-8000 cps • output level —151 db (EIA sensitivity rating) • on-off switch: sliding contact short circuits microphone in "off" position • impedance: for high-impedance amplifier input • non-directional characteristics • stand coupler $\frac{5}{8}$" —27 thread • corrosion-resistant diaphragm is capable of withstanding high humidity, extreme temperatures, and severe mechanical shock

H 6¼", W 2⅜", D 3⅛"; Weight 1¼ lbs.

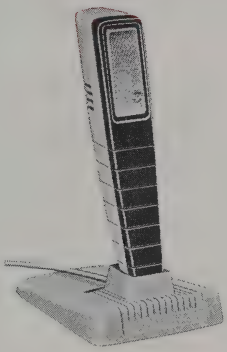
Attaché 606 (Ceramic Type)

Description: Attractive styling and small size make this high-impedance microphone an ideal replacement unit for home recorders. Serves well as a utility microphone in low-cost public-address applications. Designed for hand or table use, it has sufficient sensitivity for any modern amplifier input.

Features: • frequency response 60-6000 cps • output level —155 db (EIA sensitivity rating) • high-impedance output —55 db • non-directional characteristic

H $3\frac{9}{16}$", W $1\frac{13}{16}$", D 1¾"; Weight 8 oz. (including cable)

RCA SPECIAL COMMUNICATIONS PRODUCTS



Attache 608 (Cardiod Type)

Description: Ceramic-type cardioid microphone designed for use in public address, call, and paging systems, base-station operation of a mobile-communications network, high-level Citizens Band radio or amateur radio. The cardioid characteristic makes the Attaché 608 especially useful in locations where high-level random noise and reverberation are present.

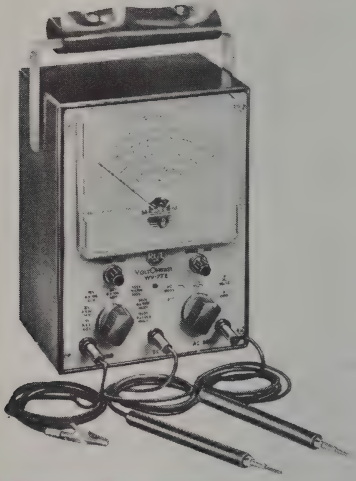
Features: • frequency response 60-8000 cps • output level —155 db (EIA sensitivity rating) • on-off switch: sliding contact short circuits microphone in "off" position • high-impedance output • cardioid polar pattern • temperature: will withstand 200°F H $8\frac{7}{32}$", W $1\frac{7}{8}$", D $1\frac{11}{32}$"; Weight 1 lb. (including cable)

RCA ELECTRONIC INSTRUMENTS

for servicing • production • research • training

TEST AND MEASURING EQUIPMENT

Voltmeter-Type Instruments

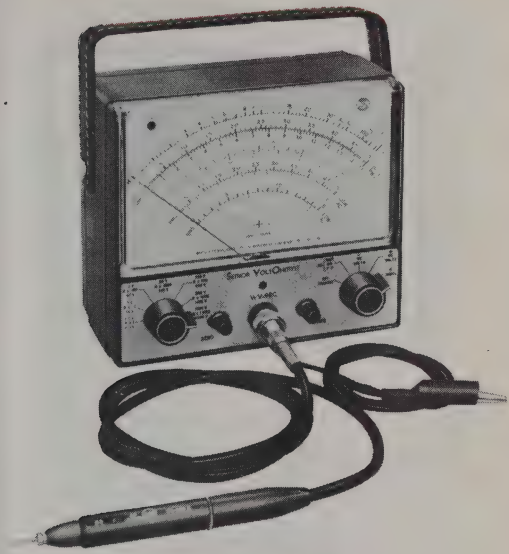


WV-77E VoltOhmyst® (VTVM) & WV-77E(K) VoltOhmyst (VTVM) Kit

Measures—in 7 ranges: • 0.02 to 1500 volts dc • 0.1 to 1500 volts ac rms • 0.2 to 4000 p-p volts of sine and complex waveforms • 0.2 ohms to 1000 megohms

Features: • dc accuracy ±3% full scale, ac ±5% • dc input resistance 11 megohms • ac response 40 cps to 5 Mc on lower 3 ranges • zero-center scale adjustment for FM alignment • 4¼" meter

H 7¾", W 5⅝", D 4¾"; Weight 5 lbs.



WV-98C Senior VoltOhmyst (VTVM) & WV-98C(K) Senior VoltOhmyst Kit

Measures—in 8 ranges: • 0.02 to 1500 volts dc • 0.1 to 1500 volts ac rms • 0.2 to 4000 p-p volts of sine waveforms • 0.2 to 2000 p-p volts of complex waveforms • 0.2 ohms to 1000 megohms

Features: • special ½-volt dc scale—ideal for transistor measurements • accuracy ac and dc ±3% full scale, except 5% on lower 2 ac ranges • dc input resistance 11 megohms • zero-center scale adjustment for FM alignment • 6½" meter • special dc/ac-ohms shielded probe and cable

H 6½", W 7", D 3¾"; Weight 6 lbs.

WV-87B Master VoltOhmyst (VTVM)

Like the Senior VoltOhmyst except for low dc range but features: • 7½" meter with mirror-backed scale • accuracy ±3% full scale on all ranges

Measures—in 9 ranges: • 10 μa to 15 amp dc

H 10", W 13½", D 7"; Weight 8 lbs.

WV-120A Power Line Monitor

For constant indication of power line voltage

Features: • expanded scale 100 to 140 volts indicates true rms values • accuracy ±2% at 120 volts, ±3% at 100 and 140 volts • readable from 10 feet or more • plugs in to power line outlet • wide frequency range, 25 to 400 cps

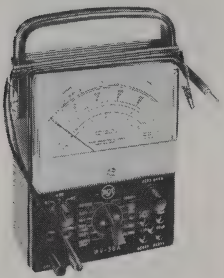
H 3 15/16", W 5", D 3 1/16"; Weight 1½ lbs.

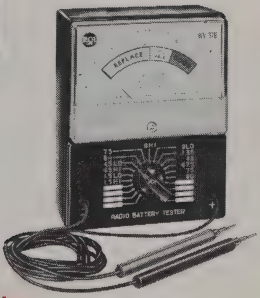
WV-38A Volt-Ohm-Milliammeter & WV-38A(K) VOM Kit

Measures: • 0.005 to 5000 volts dc in 8 ranges, input resistance 20,000 ohms/volt full scale • 0.05 to 5000 volts ac in 6 ranges, input resistance 5000 ohms/volt full scale • 1 μa to 10 amp dc in 6 ranges insertion loss 0.25 volt • 0 - 20 megohms in 3 ranges • —20 to +50 db (zero = 1 mw into 600 ohms) • af output 2.5 to 250 volts in 4 ranges

Features: • 5¼" meter • accuracy ±3% full scale on dc, 5% on ac and af • frequency response 10 cps to 50 kc • facility for measuring af in presence of dc

H 6⅞", W 5¼", D 3⅛"; Weight 3½ lbs.



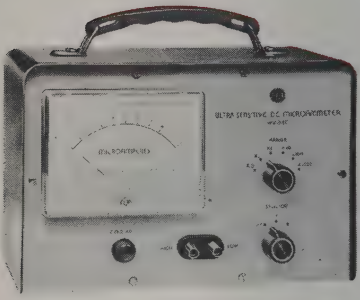


WV-37B Battery Tester

Measures: • wide range of battery types under load • percentage of rated output voltage • whether battery should be replaced

Features: • 8 blank switch positions for new battery types • small size, readily portable

H 6⅞", W 5¼", D 3⅛".

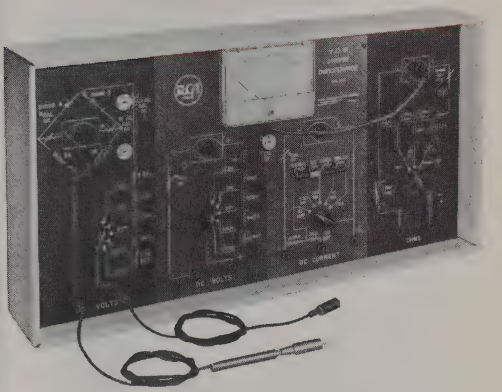


WV-84C Ultra-Sensitive DC Microammeter

Measures: • 0.0002 to 1000 microamps dc in 6 ranges, 0.5 volt insertion loss • 0.02 to 100 dc volts in 3 ranges • input resistance more than 100 megohms/volt • ohms measurement, 900 to 90,000 megohms in 2 ranges

Features: • meter electronically protected against burnout

H 7½", W 10½", D 6¼"; Weight 10 lbs.



WE-95A(K) VOM Dynamic Demonstrator Kit

Provides extremely effective method for instruction on principles of multi-range volt-ohm-milliameters. Each section colored for convenient reference. A detailed explanation of each circuit function is given in booklet for instructor's use.

DC input resistance: 20,000 ohms/volt

AC input resistance: 5,000 ohms/volt

Features: • easy to assemble • packing box serves as convenient dust-proof housing for either vertical or horizontal operation

Measures: • 2.5 to 1,000 volts ac or dc in five ranges • 12 to 120,000 ohms in three ranges • 1.0 ma to 10 amp full scale in five dc current ranges

Size of panel: 24" x 12"

RCA ELECTRONIC INSTRUMENTS

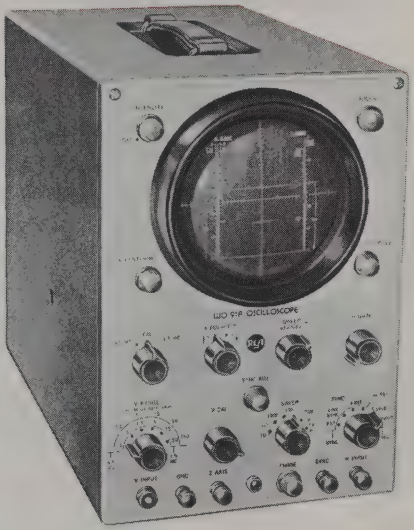
Oscilloscopes

WO-33A 3" Oscilloscope & WO-33A (K) Oscilloscope Kit

For black-and-white & color TV servicing and general electronic applications

Features: • small and easily portable, weighs only 14 pounds • vertical amplifier sensitivity .003 rms volt/inch (narrow band), 0.1 rms volt/inch (wide band) • horizontal amplifier sensitivity 0.9 rms volts/inch • input impedance, 1 meg/90 $\mu\mu$f • vertical amplifier, wideband response 5.5 cps to 5.5 Mc • rise time 0.1 μsec • with low-capacity probe input impedance 10 meg/10 $\mu\mu$f • sweep oscillator 15 cps to 75 kc • internal calibrating voltage

H 8¾", W 6½", D 10½"; Weight 14 lbs.



WO-91A 5" Oscilloscope

For black-and-white & color TV servicing and general electronic applications

Features: • vertical amplifier sensitivity 0.018 rms volt/inch (narrow band), 0.053 rms volt/inch (wide band) • horizontal amplifier sensitivity 0.18 rms volt/inch • input impedance, 1 meg/75 $\mu\mu$f • with low capacity probe, impedance 10 meg/12.5 $\mu\mu$f • vertical amplifier wideband response 3 cps to 4.5 Mc • rise time 0.1 μsec • preset sweeps for TV deflection frequencies • two-stage sync separator for improved stability • sweep oscillator 10 cps to 100 kc • internal calibrating voltage • provision for 2-axis blanking

H 13½", W 9", D 16½"; Weight 30 lbs.

Signal Generators

WR-64A Color-Bar/Dot/Crosshatch Generator & WR-64A(K) Color-Bar/Dot/Crosshatch Generator Kit

For color-TV applications.

[Note: Construction of the WR-64A(K) kit requires technician's abilities and test equipment as specified in the kit instructions.]

Provides: • rf output on channel 3 • output cable connected directly to receiver antenna • 10 color bars at 30° phase intervals • stable dot pattern, enabling proper convergence • crosshatch pattern for size and linearity checks • line and frame sync pulses • picture carrier .05 volts max. • sound carrier 10% of picture carrier, switched out when not required

Features: • crystal-controlled accuracy • simple to operate

H 10", W 12½", D 8"; Weight 13¼ lbs.

WR-50A RF Signal Generator & WR-50A(K) RF Signal Generator Kit

Provides: • rf output 85 Kc to 30 Mc in six overlapping ranges • dual control for rf output from two-step attenuator and potentiometer • at least 0.05-volt rms output from cathode follower type of output

Features: • dial calibration accuracy 1% • calibrating oscillator circuit with front panel socket for crystal • 400-cycle oscillator for internal modulation • shielded cables for rf and af output

H 7¾", W 5⅝", D 4¾"; Weight 5 lbs.

WR-51A Stereo FM Signal Simulator

Provides: • variable-level composite stereo output signal for either left or right channel • variable-level 19 Kc subcarrier signal • 100 Mc FM signal with composite stereo, monophonic FM, and 60-cps sweep signals • 0 to 75 Kc FM deviation adjustment • 60 cps sweep width, adjustable from 0 to 700 Kc • crystal-controlled marker frequency for 10.7 Mc if, plus four additional rf markers in the 88-108 Mc range • two coaxial connecting cables, one direct and one for use with 75- or 300-ohm input.

Features: • special phase-test signal (L + R) for accurate phase adjustment of subcarrier transformers • eight pre-set sine-wave frequencies: 400 cps, 1,000 cps, 5,000 cps, 19 Kc, 28 Kc, 38 Kc, 48 Kc, and 67 Kc • center frequency trim adjustment for 100 Mc carrier • 60-db attenuator in three 20 db steps for rf signal • zero-center meter for checking receiver stereo balance

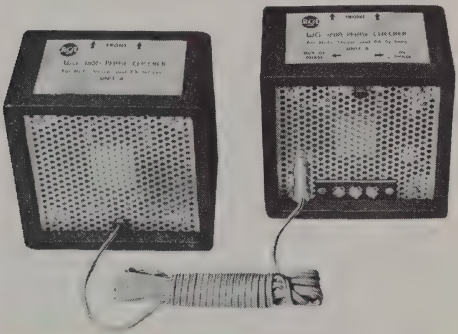
H 10", W 12½", D 8"; Weight 14 lbs.

WA-44C Sine/Square-Wave Audio Generator

Provides: • sine or square-wave frequencies, 20 cps to 200 kc • sine-wave output, 8 volts rms into 100,000 ohms/75 $\mu\mu$f load • square-wave output, 10 volts p-p into 100,000 ohms/75 $\mu\mu$f load

Features: • source impedances 300 ohms and 3000 ohms • square-wave rise time less than 0.15 μsec, tilt less than 5% • output amplitude variation (30 cps to 100 kc) $\pm$1.5 db • frequency stability $\pm$2% • dial calibration accuracy $\pm$5%

H 7", W 10$\frac{11}{16}$", D 6$\frac{1}{2}$"; Weight 10$\frac{1}{2}$ lbs.



WG-360A Phase Checker

Used for a dynamic check of phasing in any audio system from input to the output of the speakers

Features: • sound powered; requires no external voltage source • any VOM, VTVM, or oscilloscope may be used as the indicator

WR-69A Television/FM Sweep Generator

Provides: • sweep output for channels 2 - 13 in 12 ranges • FM sweep output 88-108 Mc in 2 ranges • if-video sweep output 50 kc - 50 Mc in 6 ranges • output voltage at least 0.1 volt on all ranges • rf sample voltage for use with marker adders • two bias output voltages, continuously variable from 0 to —12 volts, available at front panel

Features: • continuously adjustable sweep width, up to at least 12 Mc on the TV channels and up to at least 20 Mc on FM • and if/video • maximum output amplitude variation 0.1 db/Mc • attenuator range for TV and FM channels 60 db, for if/video 70 db • output cable for TV and FM 300 ohms balanced to ground, if/video 100 ohms • switched blanking permits zero-reference line during alignment

H 10″, W 13⅝″, D 7″; Weight 16 lbs.

WR-70A RF/IF/VF Marker Adder

For alignment of color TV and black-and-white TV receivers

Provides: • marker pulse by beating marker frequency with sample of rf sweep signal and applies marker pulse to demodulated output from receiver under test • provides combined signal for oscilloscope display • four different marker shapes—(1) positive peak, (2) negative peak, (3) positive and negative peaks (wideband), (4) positive and negative peaks (narrow band)

For use in conjunction with conventional: • if/video sweep generators having 50 kc to 50 Mc output at 0.1 min. rms volts • rf sweep generators having 0.005 min. rms volts output • conventional marker generators

Features: • sweep attenuation 60 db max. • complete with 4 connectors; marker input, sweep sample input, demodulated signal input, scope output

H 7½", W 10½", D 6¼"; Weight 8 lbs.

WR-76A High-Sensitivity AC VTVM & WR-76A(K) High-Sensitivity AC VTVM Kit

For laboratory and service use and as a wide range audio preamplifier (38 db gain on 10-millivolt range). Operates from power line source of 105 to 125 volts at 50 to 400 cps.

Measures: • ac voltages from 0.01 volt to 100 volts • —40 to +40 db • voltages having a frequency range of 10 cps to 1.5 Mc with WG-300B probe in DIRECT position, and 10 cps to 500 Kc with WG-300B probe in the LOW-CAP position • ±5% accuracy of full-scale reading for voltage and db measurements

Features: • two different scales for voltage measurements • separate scale for db measurements • supplied with WG-300B coaxial-type low-capacitance/direct probe

H 7⅜", W 5⅜", D 4¾"; Weight 5 lbs.

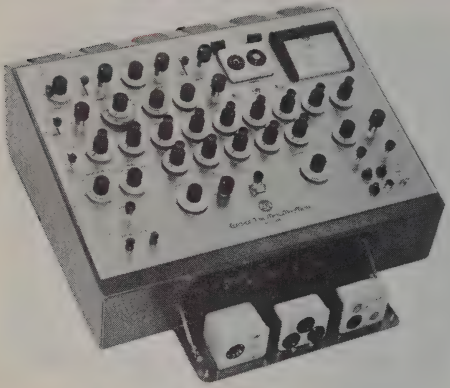
WR-99A Crystal-Calibrated Marker Generator

Provides: • crystal-controlled frequencies (internal) 1 Mc, 4.5 Mc, 10 Mc • rf output frequencies (fundamentals) 19 - 260 Mc in 8 ranges calibrated at 1 Mc and 10 Mc intervals • dual markers spaced at 4.5 Mc when used with sweep generator and scope to mark picture and sound carrier points on response curve • output voltages at least 0.05 rms volts at crystal frequencies and 0.1 rms volts at VFO frequencies • internal modulation 1 Mc, 10 Mc, 4.5 Mc, 4.5 Mc with 600 cps, and 600 cps

Features: • modulation can be accomplished from external source up to 10 Mc, from plug-in crystal 1 Mc to 30 Mc, from plug-in LC circuit 100 kc to 1 Mc • rf attenuator 60 db in 12 steps of 5 db • output cable impedance 90 ohms

H 10", W 13½", D 7"; Weight 17 lbs.

Tube Testers



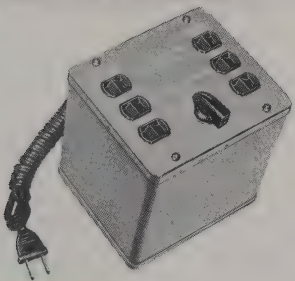
WT-100A Electron Tube Micromhometer

Measures: • transconductance, control-grid or suppressor-grid to plate 0 to 100,000 μmhos in 6 ranges • dc electrode currents; to plate, grid No. 3, grid No. 2 and No. 4 and grid No. 1 0 μa to 300 ma in 11 ranges • tube voltage drop 0-300 volts in 4 ranges at plate currents up to 300 milliamperes • ac heater volts 0-117 in 5 ranges with power capability to 30 watts • dc heater volts 0.1-3 at currents up to 250 ma • indicates shorts up to 2 megohms resistance

Features: • transconductance accuracy ±3% • plate volts 0-300 with capability to 30 watts • grid No. 2 and 4 voltage up to 300 volts at currents up to 30 ma • grid No. 3 and grid No. 1 volts 0-100 • plate and grid No. 2 supply regulation ±3% • cathode and grid No. 1 resistor continuously adjustable from 0 to 2600 ohms and from 0 to 5 megohms respectively • 4 multiple-socket plug-in units supplied with unit covering a wide range of different tube types and bases • 2 top-cap connectors • push-to-read operation • rotary switches can connect up to 14 pins and two top caps to desired test circuit • built-in 7-pin and 9-pin straighteners • meter fully protected against overload

H 8″, W 23½″, D 18½″; Weight 50 lbs.

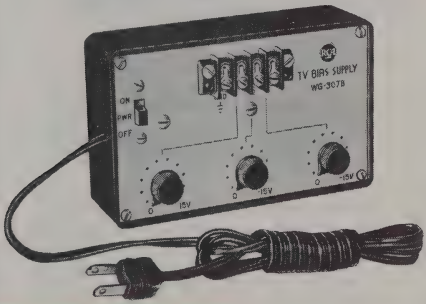
Voltage and Power Supplies



WP-25A TV Isotap

Provides: • output voltages of 130, 115, and 105 volts ac, up to 275 volt-amperes, with 4% regulation

Features: • tapped to match line voltages from 105 to 130 in 6 steps, switch selector • auto transformer and isolation transformer windings • separate outlet for each output voltage



WG-307B TV Bias Supply & WG-307B(K) TV Bias Supply Kit

Provides: • three separate adjustable voltages, 0 to —15 volts minimum for rf, if, and agc bias circuits in color and black-and-white TV receivers

Features: • separate potentiometers for adjusting 0- to —15-volt outputs

Accessories

WG-304B RF Modulator

For checking frequency adjustment of color TV receivers for use in conjunction with a crystal calibrated signal generator, sweep frequency generator, and a marker source

Provides: • rf output signal to TV antenna leads amplitude-modulated by signal from video sweep generator

WG-295D Video Multimarker

For sweep alignment and troubleshooting of color TV receivers

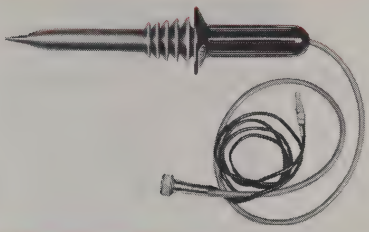
Provides: • absorption markers at 0.5, 1.5, 2.5, 3.0, 3.58, 4.1, and 4.5 Mc for marking video response curves

Features: • easy identification of the desired marker • insertion loss 1 db or less

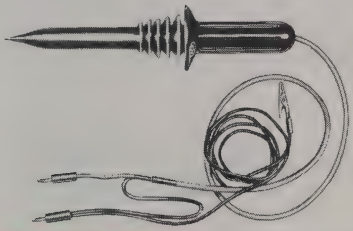
Probes
For Voltmeter-Type Instruments

WG-301A Crystal-Diode Probe • slips on to probe WG-299D to increase frequency range to 250 Mc

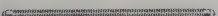
WG-351A Crystal-Diode Probe • extends frequency range of WV-77C and WV-77E(K) to over 100 Mc. Alligator clips at input



WG-289 High Voltage Probe • extends dc voltage range to 50,000 volts—RCA VoltOhmysts WV-98A, WV-98B, WV-98C, WV-77A, WV-77B, WV-77C, WV-97A, WV-87A, WV-87B • microphone type connector



WG-297 High Voltage Probe • extends dc voltage range to 50,000 volts—RCA voltmeters WV-77E and WV-77E(K) and WV-38A • banana plug connectors



WG-206, WG-210, WG-211 Multiplier Resistors

For use in WG-289 and WG-297 high-voltage probes

WG-206—1090 megohms multiples 11 megohm input resistance by 100

WG-210—900 megohms multiplies 5000-volt range of 20,000 ohms/volt VOM's by 100

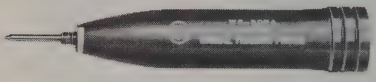
WG-211—495 megohms multiplies 250-volt range of 20,000 ohms/volt VOM's by 100

WG-299D DC/AC-Ohms Probe and Cable • for use with VoltOhmysts except WV-77E and WV-77E(K) • shielded from connector to tip • finger-tip switch to select dc or ac-ohms operation

Probes
For Oscilloscopes

WG-300B Direct/Low-Capacitance Probe and Cable • for use with RCA oscilloscopes WO-33A and WO-91A • increases input impedance to 10 megohms/11 *uuf* • finger-tip switch to select direct or low-cap operation

WG-349A Direct/Low-Capacitance Probe • for use with WO-33A and WO-33A(K) scopes • increases input impedance to 10 megohms/12 *uuf*



WG-302A RF/IF/VF Signal Tracing Probe • slips on to probe WG-300B, demodulates signal permitting display on WO-91A scope

WG-350A Demodulator Probe • for use with WO-33A and WO-33A(K) scopes, demodulation and signal tracing of radio, TV rf and if signals

• **INSTRUCTION BOOKLETS,** containing specifications, operating and maintenance data, application information, schematic diagrams, and replacement parts lists, are available for all RCA test instruments.

NOTE: All prices are optional list prices and apply in the U.S.A. They are subject to change without notice.

WA-44	(Audio Signal Generator)	$0.50
WA-44C	(Sine-Square Wave Audio Generator)	1.00
WO-33A	(Super-Portable Oscilloscope)	1.00
WO-88A	(5-in. Oscilloscope)	.50
WO-91A	(5-in. Oscilloscope)	1.00
WR-36A	(Dot-Bar Generator)	.50
WR-39C	(TV Calibrator)	.50
WR-46A	(Video Dot/Crosshatch Generator)	.75
WR-49A	(RF Signal Generator)	.50
WR-49B	(RF Signal Generator)	1.00
WR-61B	(Color-Bar Generator)	1.00
WR-64A	(Color-Bar/Dot/Crosshatch Generator)	1.00
WR-67A	(Test-Oscillator)	.25
WR-69A	(TV-FM Sweep Generator)	1.00
WR-70A	(RF-IF-VF Marker Adder)	.75
WR-86A	(UHF Sweep Generator)	.50
WR-99A	(Marker Calibrator)	1.00
WV-37B	(Radio Battery Tester)	.25
WV-38A	(Volt-Ohm-Milliammeter)	.50
WV-65A	(*VoltOhmyst*®)	.25
WV-74A	(High-Sensitivity AC VTVM)	.75
WV-75A	(*VoltOhmyst*®)	.25
WV-77A	(*VoltOhmyst*®)	.25
WV-77B	(*VoltOhmyst*®)	.25
WV-77E	(*VoltOhmyst*®)	1.00
WV-84C	(Ultra-Sensitive DC Microammeter)	.75
WV-87B	(Master *VoltOhmyst*®)	.75
WV-95A	(*VoltOhmyst*®)	.25
WV-97A	(*VoltOhmyst*®)	.50
WV-98A	(*VoltOhmyst*®)	1.00
WV-98B	(Senior *VoltOhmyst*®)	1.00
WV-98C	(Senior *VoltOhmyst*®)	.50
195-A	(*VoltOhmyst*®)	.25
WT-100A	(Electron-Tube MicroMhoMeter, Ser. No. 1001 and over)	2.00
WT-100A	(Tube Chart 1CE-163)	3.00
WT-110A	(Automatic Electron-Tube Tester)	1.00
WT-110A	(1CE-174 Card Punch Data)	.25
WT-110A	(1CE-234 Card Punch Data)	1.00
WT-110A	(Supplement 2 to 1CE-234 Card Punch Data)	.50

JANUARY 1963

TUES. 1

NEW YEAR'S DAY

WED. 2

THURS. 3

FRI. 4

SAT. 5

JANUARY 1963

SUN. 6

MON. 7

TUES. 8

WED. 9

THURS. 10

FRI. 11

SAT. 12

JANUARY 1963

SUN. 13

MON. 14

TUES. 15

WED. 16

THURS. 17

FRI. 18

SAT. 19

JANUARY 1963

SUN. 20

MON. 21

TUES. 22

WED. 23

THURS. 24

FRI. 25

SAT. 26

JANUARY-FEBRUARY 1963

SUN. 27

MON. 28

TUES. 29

WED. 30

THURS. 31

FRI. 1

SAT. 2

FEBRUARY 1963

SUN. 3

MON. 4

TUES. 5

WED. 6

THURS. 7

FRI. 8

SAT. 9

FEBRUARY 1963

SUN. 10

MON. 11

TUES. 12

LINCOLN'S BIRTHDAY

WED. 13

THURS. 14

FRI. 15

SAT. 16

FEBRUARY 1963

SUN. 17

MON. 18

TUES. 19

WED. 20

THURS. 21

FRI. 22

WASHINGTON'S BIRTHDAY

SAT. 23

FEBRUARY-MARCH 1963

SUN. 24

MON. 25

TUES. 26

WED. 27

ASH WEDNESDAY

THURS. 28

FRI. 1

SAT. 2

MARCH 1963

SUN. 3

MON. 4

TUES. 5

WED. 6

THURS. 7

FRI. 8

SAT. 9

MARCH 1963

SUN. 10

MON. 11

TUES. 12

WED. 13

THURS. 14

FRI. 15

SAT. 16

MARCH 1963

SUN. 17

MON. 18

TUES. 19

WED. 20

THURS. 21

FRI. 22

SAT. 23

MARCH 1963

SUN. 24

MON. 25

TUES. 26

WED. 27

THURS. 28

FRI. 29

SAT. 30

MARCH-APRIL 1963

SUN. 31

MON. 1

TUES. 2

WED. 3

THURS. 4

FRI. 5

SAT. 6

APRIL 1963

SUN. 7

MON. 8

TUES. 9

PASSOVER BEGINS

WED. 10

THURS. 11

FRI. 12

GOOD FRIDAY

SAT. 13

APRIL 1963

SUN. 14

EASTER SUNDAY

MON. 15

TUES. 16

PASSOVER ENDS

WED. 17

THURS. 18

FRI. 19

SAT. 20

APRIL 1963

SUN. 21

MON. 22

TUES. 23

WED. 24

THURS. 25

FRI. 26

SAT. 27

APRIL-MAY 1963

SUN. 28

MON. 29

TUES. 30

WED. 1

THURS. 2

FRI. 3

SAT. 4

MAY 1963

SUN. 5

MON. 6

TUES. 7

WED. 8

THURS. 9

FRI. 10

SAT. 11

MAY 1963

SUN. 12

MON. 13

TUES. 14

WED. 15

THURS. 16

FRI. 17

SAT. 18

MAY 1963

SUN. 19

MON. 20

TUES. 21

WED. 22

THURS. 23

FRI. 24

SAT. 25

MAY-JUNE 1963

SUN. 26

MON. 27

TUES. 28

WED. 29

THURS. 30

MEMORIAL DAY

FRI. 31

SAT. 1

JUNE 1963

SUN. 2

MON. 3

TUES. 4

WED. 5

THURS. 6

FRI. 7

SAT. 8

JUNE 1963

SUN. 9

MON. 10

TUES. 11

WED. 12

THURS. 13

FRI. 14

FLAG DAY

SAT. 15

JUNE 1963

SUN. 16

MON. 17

TUES. 18

WED. 19

THURS. 20

FRI. 21

SAT. 22

JUNE 1963

SUN. 23

MON. 24

TUES. 25

WED. 26

THURS. 27

FRI. 28

SAT. 29

JUNE-JULY 1963

SUN. 30

MON. 1

TUES. 2

WED. 3

THURS. 4

INDEPENDENCE DAY

FRI. 5

SAT. 6

JULY 1963

SUN. 7

MON. 8

TUES. 9

WED. 10

THURS. 11

FRI. 12

SAT. 13

JULY 1963

SUN. 14

MON. 15

TUES. 16

WED. 17

THURS. 18

FRI. 19

SAT. 20

JULY 1963

SUN. 21

MON. 22

TUES. 23

WED. 24

THURS. 25

FRI. 26

SAT. 27

SUN. 28

MON. 29

TUES. 30

WED. 31

THURS. 1

FRI. 2

SAT. 3

AUGUST 1963

SUN. 4

MON. 5

TUES. 6

WED. 7

THURS. 8

FRI. 9

SAT. 10

AUGUST 1963

SUN. 11

MON. 12

TUES. 13

WED. 14

THURS. 15

FRI. 16

SAT. 17

AUGUST 1963

SUN. 18

MON. 19

TUES. 20

WED. 21

THURS. 22

FRI. 23

SAT. 24

AUGUST 1963

SUN. 25

MON. 26

TUES. 27

WED. 28

THURS. 29

FRI. 30

SAT. 31

SEPTEMBER 1963

SUN. 1

MON. 2

LABOR DAY

TUES. 3

WED. 4

THURS. 5

FRI. 6

SAT. 7

SEPTEMBER 1963

SUN. 8

MON. 9

TUES. 10

WED. 11

THURS. 12

FRI. 13

SAT. 14

SEPTEMBER 1963

SUN. 15

MON. 16

TUES. 17

WED. 18

THURS. 19

JEWISH NEW YEAR

FRI. 20

JEWISH NEW YEAR

SAT. 21

SEPTEMBER 1963

SUN. 22

MON. 23

TUES. 24

WED. 25

THURS. 26

FRI. 27

SAT. 28

YOM KIPPUR

SEPTEMBER-OCTOBER 1963

SUN. 29

MON. 30

TUES. 1

WED. 2

THURS. 3

FRI. 4

SAT. 5

OCTOBER 1963

SUN. 6

MON. 7

TUES. 8

WED. 9

THURS. 10

FRI. 11

SAT. 12

COLUMBUS DAY

UN. 13

ON. 14

JES. 15

'ED. 16

HURS. 17

RI. 18

AT. 19

OCTOBER 1963

SUN. 20

MON. 21

TUES. 22

WED. 23

THURS. 24

FRI. 25

SAT. 26

OCTOBER-NOVEMBER 1963

SUN. 27

MON. 28

TUES. 29

WED. 30

THURS. 31

FRI. 1

SAT. 2

NOVEMBER 1963

SUN. 3

MON. 4

TUES. 5

ELECTION DAY

WED. 6

THURS. 7

FRI. 8

SAT. 9

NOVEMBER 1963

SUN. 10

MON. 11

VETERANS' DAY

TUES. 12

WED. 13

THURS. 14

FRI. 15

SAT. 16

NOVEMBER 1963

SUN. 17

MON. 18

TUES. 19

WED. 20

THURS. 21

FRI. 22

SAT. 23

NOVEMBER 1963

SUN. 24

MON. 25

TUES. 26

WED. 27

THURS. 28

THANKSGIVING DAY

FRI. 29

SAT. 30

DECEMBER 1963

SUN. 1

MON. 2

TUES. 3

WED. 4

THURS. 5

FRI. 6

SAT. 7

DECEMBER 1963

SUN. 8

MON. 9

TUES. 10

WED. 11

THURS. 12

FRI. 13

SAT. 14

DECEMBER 1963

SUN. 15

MON. 16

TUES. 17

WED. 18

THURS. 19

FRI. 20

SAT. 21

DECEMBER 1963

SUN. 22

MON. 23

TUES. 24

WED. 25

CHRISTMAS DAY

THURS. 26

FRI. 27

SAT. 28

DECEMBER 1963

SUN. 29

MON. 30

TUES. 31

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RCA Field Sales Offices

INDUSTRIAL TUBE PRODUCTS

Newark 2, New Jersey, 744 Broad Street
(HUmboldt 5-3900)

Chicago 54, Ill., Merchandise Mart Plaza, Room 1154
(WHitehall 4-2900)

Los Angeles 22, California, 6801 East Washington Blvd.
(RAymond 3-8361)

Burlingame, California, 1838 El Camino Real
(OXford 7-1620)

ENTERTAINMENT TUBE PRODUCTS

Newark 2, New Jersey, 744 Broad Street
(HUmboldt 5-3900)

Chicago 54, Ill., Merchandise Mart Plaza, Room 1154
(WHitehall 4-2900)

Los Angeles 22, California, 6801 East Washington Blvd.
(RAymond 3-8361)

GOVERNMENT SALES

Harrison, New Jersey, 415 South 5th Street
(HUmboldt 5-3900)

Washington 6, D. C., 1725 K Street, N. W.
(FEderal 7-8500)

Dayton 2, Ohio, 224 North Wilkinson Street
(BAldwin 6-2366)

1963

JANUARY

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

FEBRUARY

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

MARCH

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24/31	25	26	27	28	29	30

APRIL

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23/30	24	25	26	27	28	29

JULY

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

OCTOBER

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

NOVEMBER

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

DECEMBER

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

1964

JANUARY

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
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FEBRUARY

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
						1
2	3	4	5	6	7	8
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16	17	18	19	20	21	22
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MARCH

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
1	2	3	4	5	6	7
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22	23	24	25	26	27	28
29	30	31				

APRIL

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
			1	2	3	4
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MAY

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
					1	2
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JUNE

SUN.	MON.	TUE.	WED.	THU	FRI.	SAT.
	1	2	3	4	5	6
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JULY

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
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AUGUST

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
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23/30	24/31	25	26	27	28	29

SEPTEMBER

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

OCTOBER

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
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18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		